

TARIFF ACTION MEMO

Date: April 20, 2023

Date Filed: March 16, 2023

Statutory End Date: May 1, 2023

File No: TA416-121 and TA538-8

Name of Utility: Chugach Electric Association, Inc. (Chugach)

Subject: Cost of Power Adjustment (COPA) and Small Facility Power Purchase Rate (SFPPR)

Recommendations

Staff recommends the Commission:

1. Approve Tariff Sheet Nos. 66 through 76, and Tariff Sheet No. 103, filed March 16, 2023, by Chugach with TA416-121, as shown on the attached side-by-side tariff sheets (BA-1). The effective date of the tariff sheets should be April 1, 2023.
2. Approve Tariff Sheet Nos. 93, 94, 94.04, 94.05, 94.1, 94.1.1, 94.1.2, 95, 95.04, 95.05, 95.5, 96, 97, 97.1.5, 97.5.3, and 97.6.2, filed March 16, 2023, by Chugach with TA538-8, as shown on the attached side-by-side tariff sheets (BA-2). The effective date of the tariff sheets should be April 1, 2023.

Please see attached Staff Memorandum supporting the above recommendations.

Signed: Becki Alvey
Becki Alvey

Title: Utility Tariff Analyst

Commission decision regarding these recommendations:

	<u>Date (if different from 4/20/2023)</u>	<u>I Concur</u>	<u>I Do Not Concur</u>	<u>I Will Write a Dissenting Statement*</u>
Kurber		<u>KKI</u>		
Doyle		<u>BD</u> BD		
Pickett		<u>RMP</u> BP		
Sullivan		<u>RMP</u> BP for DS		
Wilson	4/21/23	<u>JWW</u> JWW		

* If this column is initialed, Staff will contact the Commissioner for the statement; otherwise, the dissent will simply be noted at the close of the By Direction letter or order.

MEMORANDUM

To: Keith Kurber II, Chairman
Robert A. Doyle
Robert M. Pickett
Daniel A. Sullivan
Janis W. Wilson

Date: April 20, 2023

From: Becki Alvey, Utility Tariff Analyst

Subject: COPA/SFPPR

Recommendations

Staff recommends the Commission:

1. Approve Tariff Sheet Nos. 66 through 76, and Tariff Sheet No. 103, filed March 16, 2023, by Chugach with TA416-121, as shown on the attached side-by-side tariff sheets (BA-1). The effective date of the tariff sheets should be April 1, 2023.
2. Approve Tariff Sheet Nos. 93, 94, 94.04, 94.05, 94.1, 94.1.1, 94.1.2, 95, 95.04, 95.05, 95.5, 96, 97, 97.1.5, 97.5.3, and 97.6.2, filed March 16, 2023, by Chugach with TA538-8, as shown on the attached side-by-side tariff sheets (BA-2). The effective date of the tariff sheets should be April 1, 2023.

Background

On November 5, 2018, the Commission issued Order No. U-18-102(1), opening an investigation into the BRU management practices of the Municipality of Anchorage d/b/a Municipal Light and Power (ML&P). On April 18, 2019, the Commission issued Order No. U-19-020(1) and Order No. U-19-021(1) to address Chugach Electric Association Inc.'s (Chugach) petition to acquire most of ML&P's assets and ML&P's request for amendment of its certificate, respectively. Docket No. U-18-102 was consolidated with Docket Nos. U-19-020 and U-19-021, on May 8, 2019, with Order No. U-18-102(8)/U-19-020(2)/U-19-021(2). In that order the Commission designated Chugach as a party to Docket No. U-18-102. On May 28, 2020, the Commission issued Order No. U-18-102(44)/U-19-020(39)/U-19-021(39), conditionally approving the transaction and requiring a number of filings. In addition, in the Commission's discussion of the transfer of Certificate No. 121 to Chugach, the Commission imposed four conditions including that Chugach file tariff revisions under which all Chugach ratepayers will be billed under the same COPA surcharge calculation, including unified gas transfer price (GTP) no later than 45-days before January 1, 2021.¹

On August 26, 2020, Chugach filed TA492-8, TA493-8, TA494-8, and TA495-8, proposing methodologies for the RRR Account, BRU Contributed Capital surcharge and rebate, unified GTP, and unified COPA, respectively, in compliance with Order No. U-18-102(44)/U-19-020(39)/U-19-021(39). On November 5, 2020, the Commission issued

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39), at page 58.

Letter Order Nos. L2000397, L2000395, and L20000399, approving the tariff sheets filed with TA492-8 and TA493-8, and approving the unified COPA methodology, respectively.

Filings

Chugach now submits TA416-121 and TA538-8, its unified COPA and SFPPR update for the period beginning April 1, 2023, for the North District and South District, respectively. With TA416-121, Chugach filed Tariff Sheet Nos. 66 through 76 and Tariff Sheet No. 103 and requested the tariff sheets be effective April 1, 2023. With TA538-8, Chugach filed Tariff Sheet Nos. 93, 94, 94.04, 94.05, 94.1, 94.1.1, 94.1.2, 95, 95.04, 95.05, 95.5, 96, 97, 97.1.5, 97.5.3, and 97.6.2 and requested the tariff sheets be effective April 1, 2023. With TA416-121 and TA538-8, Chugach filed updates to its BRU Contributed Capital surcharge and rebate and an update to the Restricted Rate Reduction (RRR) rebate. Chugach filed one supplement related to Staff questions.²

Proposed revisions to the COPA surcharges are reviewed under 3 AAC 52.504, which requires information supporting entries in the balancing account for the historical period, and support for projections for the future period.³ Chugach segregates the retail COPA surcharge into a fuel component and a purchased power component and updates the distribution-level losses of retail customers served between Primary and Secondary voltage levels.⁴

Calculation of the COPA consists of three parts. The first part includes a 3-month estimate of kWh sales, power costs, and revenue offsets. Chugach submitted supporting documentation for the projected period of April through June 2023. The second part includes documentation supporting the estimated balancing account entries for January through March 2023.⁵ The third part includes documentation supporting the actual balancing account. Chugach provided actual usage, generation, cost and sales data for the period of October through December 2022, including invoices and spreadsheets supporting the balancing account entries.

Notice

In accordance with historic Commission practice,⁶ a publication notice was not issued for TA416-121 and TA538-8.

² See TR2301534, filed April 10, 2023.

³ See 3 AAC 52.504(g), *Filing Requirements for Electric Utilities*. This support includes invoices, records, reports, calculations, contracts and any other information the Commission and Staff consider necessary to explain the proposed COPA calculation.

⁴ See Letter Order No. L0900101, issued November 19, 2009.

⁵ In 1992, Chugach obtained Commission approval to use an estimated balancing account balance in its COPA calculation. See TA133-8, effective September 12, 1991.

⁶ One reason the Commission forgoes publication notice for COPA filings is 3 AAC 52.504(d) which states “[f]or a COPA filing under (b) of this section, an electric utility is not required to give public notice under AS 42.05.411...” this allows a utility to implement a COPA upon filing, rather than waiting the 45-days specified in AS 42.05.411 to ensure adequate notice to the public of a tariff revision.

Discussion/Analysis

COPA Surcharge Increase

Primary Service⁷

With TA416-121 and TA538-8, Chugach proposes a retail service for Primary Delivery COPA surcharge of \$0.05342/kWh.⁸ This is an increase from the currently approved COPA surcharge of \$0.04964/kWh.

Secondary Service

With TA416-121 and TA538-8, Chugach proposes a retail service for Secondary Delivery COPA surcharge of \$0.05383/kWh.⁹ This is an increase from the currently approved COPA surcharge of \$0.05001/kWh.

Table 1A shows the effect of the proposed changes on a sample bill for a residential customer with Secondary Service for usage of 650 kWh for the South District.

TABLE 1A

Sample Residential Customer with Secondary Service Billing - 650/kWh Usage				
Line	Description	Current Rates	Proposed Rates	Change from Current Rate
1	Fuel Cost Adjustment Factor	\$ 0.04002	\$ 0.04293	\$ 0.00291
2	Purchased Power Cost Adjustment Factor	0.00877	0.00982	\$ 0.00105
3	Fire Island Wind Adjustment Factor	0.00122	0.00108	\$(0.00014)
4	Total COPA Surcharge	\$ 0.05001	\$ 0.05383	\$ 0.00382
650 kWh Residential Customer Bill				
5	Customer Charge	\$ 8.00	\$ 8.00	-
6	Energy @ \$0.13508/kWh	87.80	87.80	-
7	RCC @ 0.000893/kWh	0.58	0.58	-
8	BRU Contributed Capital Surcharge	9.65	9.73	0.08
9	COPA Surcharge	<u>32.51</u>	<u>34.99</u>	<u>2.48</u>
10	Total Customer Bill	\$ 138.53	\$ 141.10	\$ 2.57

Table 1B shows the effect of the proposed changes on a sample bill for a residential customer with Secondary Service for usage of 650 kWh for the North District.

⁷ Throughout this memo, Staff lists the tariff sheets for Certificate No. 121 first and Certificate No. 8 second.

⁸ See side-by-side Tariff Sheet No. 69, attached as BA-1, at line e.5.D. See also side-by-side Tariff Sheet No. 94.1, attached as BA-2, at line e.5.D for Certificate No. 8.

⁹ See side-by-side Tariff Sheet No. 70, attached as BA-1, at line e.6.D. See also side-by-side Tariff Sheet No. 94.1.1, attached as BA-2, at line e.6.D.

TABLE 1B

Sample Residential Customer with Secondary Service Billing - 650/kWh Usage				
Line	Description	Current Rates	Proposed Rates	Change from Current Rate
1	Fuel Cost Adjustment Factor	\$ 0.04002	\$ 0.04293	\$ 0.00291
2	Purchased Power Cost Adjustment Factor	\$ 0.00877	\$ 0.00982	0.00105
3	Fire Island Wind Adjustment Factor	\$ 0.00122	\$ 0.00108	(0.00014)
4	Total COPA Surcharge	\$ 0.05001	\$ 0.05383	0.00382
650 kWh Residential Customer Bill				
5	Customer Charge	\$ 13.62	\$ 13.62	-
6	Energy @ \$0.15274/kWh	99.28	99.28	-
7	RCC @ 0.000893/kWh	0.58	0.58	-
8	RRR Account Rebate	(8.39)	(9.33)	(0.94)
9	BRU Contributed Capital Rebate	(14.72)	(13.72)	1.00
10	COPA Surcharge	<u>32.51</u>	<u>34.99</u>	<u>2.48</u>
11	Total Customer Bill	\$ 122.88	\$ 125.43	\$ 2.55

Factors that may affect the calculation of Chugach's COPA include the previous period's ending balancing account balance, generation efficiency, projected power costs, and variances in credits for revenue offsets.¹⁰ Changes in these factors frequently offset each other. Any factor that increases the average cost per kWh sold will put upward pressure on the COPA surcharge and any factor that decreases the average cost per kWh sold will put downward pressure on the surcharge. The proposed increase in Chugach's COPA is primarily driven by:

- 1) The projected net fuel costs decreased from \$20,582,516 to \$20,311,827,¹¹ the projected net purchased power costs increased from \$4,557,455 to \$4,984,643,¹² and the projected Fire Island Wind cost differential decreased from \$614,739 to \$471,048.¹³ This results in an increase in the total power costs from \$25,754,710 to \$25,797,519.¹⁴ This increase in costs places upward pressure on the COPA surcharge.

¹⁰ Revenue from the sales of economy energy to Golden Valley Electric Association, Inc. (GVEA), the margins associated with economy energy sales, wheeling, renewable energy certificates, and gas exchange contribution are passed through Chugach's COPA balancing account as an offset to its fuel and purchased power costs.

¹¹ See side-by-side Tariff Sheet No. 66, attached as BA-1, and Tariff Sheet No. 94, attached as BA-2, at *Net Fuel Expense* line.

¹² See side-by-side Tariff Sheet No. 67, attached as BA-1, and Tariff Sheet No. 94.04, attached as BA-2, at *Net Purchased Power Expense* line. Net purchased power expenses are purchased power expenses from Bradley Lake, base FIW renewable resource costs, and other purchases minus credits from renewable energy certificates and wheeling revenue.

¹³ See side-by-side Tariff Sheet No. 68, attached as BA-1, and Tariff Sheet No. 94.05, attached as BA-2, at *Fire Island Wind Cost Differential* line.

¹⁴ See side-by-side Tariff Sheet No. 68, attached as BA-1, and Tariff Sheet No. 94.05, attached as BA-2, at *Fuel & Purch. Costs to be Recovered* line.

- 2) The projected kWh sales decreased from 549,658,900 kWh to 473,327,000 kWh.¹⁵ This decrease results in the projected fuel and purchased power costs being spread over a smaller number of kWh, placing upward pressure on the COPA surcharge.
- 3) The projected balancing account balance decreased from \$403,658 to (1,498,356).¹⁶ The decrease in the projected balancing account balance places downward pressure on the COPA surcharge.

The decrease in the projected balancing account places downward pressure on the COPA surcharge; this is offset by the upward pressure from the increase in projected costs and the decrease in the projected sales. The overall result is an increase to Chugach's COPA.

The revisions proposed in TA416-121 and TA538-8 did not include a change in methodology or new cost element, and as such, Chugach proposes to implement the proposed surcharges on April 1, 2023, in accordance with 3 AAC 52.504(b).¹⁷ Staff has reviewed all information and calculations filed in support of TA416-121 and TA538-8 and verified that Chugach provided all required information. Staff confirmed that the proposed surcharges were calculated accurately using Chugach's approved methodology.

Other Factors Impacting Chugach's COPA

CINGSA Non-Firm Shared Revenue and Well Maintenance Surcharge

CINGSA's tariff provides that well maintenance costs be billed to Firm Storage Service (FSS) customers based on the maximum storage quantity (MSQ) and the maximum daily withdrawal quantity (MDWQ).¹⁸ CINGSA's tariff also requires CINGSA to allocate non-firm revenues to FSS customers based on its MSQ and MDWQ on a monthly basis.¹⁹ Chugach provided copies of the CINGSA invoices with Chugach's share of the non-firm revenues.²⁰

Beluga River Unit GTP

On August 26, 2020, Chugach filed TA494-8, proposing a unified GTP methodology. In that filing, Chugach proposed update its methodology to remove the ARO component from its GTP revenue requirement. Chugach also proposed to include an ARO surcharge,

¹⁵ See side-by-side Tariff Sheet No. 67, attached as BA-1, and Tariff Sheet No. 94.04, attached as BA-2, at *Predicted Sales at G&T (MWh)* line. The predicted sales at G&T presented on the tariff sheet have been multiplied by 100 to convert from MWh to kWh.

¹⁶ See side-by-side Tariff Sheet No. 67, attached as BA-1, and Tariff Sheet No. 94.05, attached as BA-2, at *Projected Balances as of March 1, 2023* line.

¹⁷ 3 AAC 52.504(b) states "[a]n electric utility may implement a COPA filing that does not include a new methodology or cost element immediately upon filing with the Commission. The COPA filing is subject to subsequent review, adjustment, and approval by the Commission."

¹⁸ See CINGSA Tariff Sheet Nos. 83 and 84, effective November 1, 2019.

¹⁹ *Ibid.*

²⁰ See TA538-8 at Attachments B, C, and D.

similar to the approach used by ML&P. On October 9, 2020, the Commission issued Order No. U-19-085(19)/U-19-091(18)/U-20-071(1), suspending TA494-8 and consolidating the new docket with Docket Nos. U-19-085 and U-19-091. On December 29, 2021, the Commission issued Order No. U-19-085(33)/U-19-091(32)/U-20-071(15) approving the tariff revisions, including the GTP on a permanent basis and setting out requirements for future filings related to the GTP and BRU. The current GTP is \$4.81 per Mcf.²¹

Power Pool with Matanuska Electric Association, Inc. (MEA)

In Order No. U-18-102(44)/U-19-020(39)/U-19-021(39), the Commission required Chugach and MEA to form a tight power pool.²² Chugach and MEA filed amended pooling agreements in TA491-8 and TA523-18.²³ On November 2, 2020, the Commission issued Letter Order Nos. L2000391 and L2000392 approving tariff sheets and Amended Pooling Agreements between Chugach and MEA filed with TA523-18 and TA491-8, respectively.

Chugach and MEA began the 18-month implementation period in November 2020. In April 2021, Chugach and MEA completed the first power pool transaction. Chugach reported the purchases, sales, and savings on Exhibits 5 and 6.²⁴

Gas Supply Agreements (GSA)

Chugach currently has four GSAs, all of which allow for the gas to be stored in the Cook Inlet Natural Gas Storage Alaska, LLC (CINGSA).²⁵

- Hilcorp Alaska, LLC (Hilcorp), January 2015 through March 2018, extended to March 2028.²⁶
- Cook Inlet Energy (CIE), initially for the period of January 2014 through March 2018²⁷ and extended through 2023.²⁸
- AIX Energy, LLC (AIX), November 3, 2016 through March 24, 2024.²⁹

²¹ See Certificate No. 8 Tariff Sheet No 98.1, effective April 1, 2023.

²² See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39), at Ordering Paragraph No. 25.

²³ Staff notes that Chugach filed the original pooling agreement in TA490-8, which was withdrawn.

²⁴ See TA527-8, at page 5.

²⁵ Chugach is a Firm Storage Service customer of CINGSA, see Letter Order No. L1100561, issued October 24, 2011; Chugach is an Interruptible Storage Service customer of CINGSA, see Letter Order No. L1400135, issued March 21, 2014; Chugach participates in gas exchange activity with its contracted CINGSA capacity; see Letter Order No. L1300478, issued October 21, 2013.

²⁶ See GSA with Hilcorp for the period of January 2015 through March 2018 (TA377-8) approved in Letter Order No. L1300429, issued September 10, 2013, extended to 2019 with TA391-8 approved in Letter Order No. L1400406, issued September 15, 2016, extended to 2023 with TA408-8 approved in Letter Order No. L1500442, issued September 8, 2015, and extend to 2028 with TA481-8 approved in Letter Order No. L2000085, issued February 28, 2020.

²⁷ See GSA with Cook Inlet Energy, LLC for the period of July 2014 through March 2018 (TA381-8) approved in Letter Order No. L1300531, issued November 25, 2013.

²⁸ See Extension to the GSA with Cook Inlet Energy, LLC (TA438-8), approved in Letter Order No. L1700174, issued May 5, 2017.

²⁹ See GSA with AIX Energy, LLC for the period of July 2016 through March 2024 (TA415-8) approved in Letter Order No. L1600010, issued October 11, 2016.

- Furie Operating Alaska, LLC, for interruptible purchases beginning on November 1, 2021, and terminating on March 31, 2023.³⁰

Gas Storage

Table 2 summarizes Chugach's gas storage activity on volumetric basis for the fourth quarter of 2022³¹ and Table 3 summarizes the monetary value of the gas in storage.³²

TABLE 2

Volume of Gas in Storage (Mcf)

Month	Purchased	Fuel Gas	Injections	Withdrawals	Balance
Oct-22	78,636	1,022	77,614	110,444	2,209,078
Nov-22	62,900	818	62,082	111,539	2,159,621
Dec-22	154,106	2,003	152,103	31,312	2,280,412

TABLE 3

Value of Gas In Storage

Month	Injections	Withdrawals	Balance	Weighted Price
Oct-22	\$633,316	\$902,950	\$17,795,124	\$8.06
Nov-22	\$509,078	\$916,554	\$17,386,117	\$8.05
Dec-22	\$1,238,512	\$256,983	\$18,366,682	\$8.05

Fire Island Wind

In Order No. U-11-100(5), the Commission allowed payments made to FIW, under a power purchase agreement³³ to be collected through the COPA, requiring disclosure to cooperative members of the actual cost of wind power.³⁴ Chugach submitted the information to support the methodology and calculation for the FIW purchased power cost recovery rate calculation. Staff reviewed the estimates for the purchased power expenses and kWh sales in its calculation. Staff summarizes its calculation and effect of the FIW adjustment rate in Table 4.

³⁰ See Gas Sale Purchase Agreement with Furie Operating Alaska, LLC (TA389-121 and TA511-8) approved in Letter Order No. L2100357, issued October 25, 2021.

³¹ See Exhibit 11 for TA527-8.

³² *Ibid.*

³³ See Power Purchase Agreement By and Between Fire Island Wind, LLC as Seller and Chugach Electric Association, Inc. as Buyer, Dated as of September 21, 2011, filed September 23, 2011, with TA335-8.

³⁴ See Order No. U-11-100(5), issued October 10, 2011.

Table 4 FIW Recovery Calculation Breakdown		
Line	Description	Amount
TOTAL FIW COSTS - Tariff Sheet No. 94.05		
1	Predicted FIW Purchases (kWh)	11,265,992
2	FIW PPA Purchased Power Rate (\$/kWh)	\$ 0.0970
3	Total FIW Costs	\$ 1,092,801
4	Predicted Retail Sales at Generation & Purchases (kWh)	458,433,224
5	Total FIW Costs per kWh	\$ 0.002380
BASE FIW AMOUNT - Tariff Sheet No. 94.05		
6	Retail Avoided Cost at G&T (\$/kWh)	\$ 0.05519
7	Base FIW Renewable Resource Cost (Line 1 x Line 6)	\$ 621,753
8	Predicted Retail Sales at G&T (kWh)	458,433,224
9	Total Base FIW Amount per kWh (\$/kWh)	\$ 0.00136
DIFFERENTIAL FIW AMOUNT - Tariff Sheet No. 94.05		
10	Differential FIW Costs (Line 3 - Line 7)	\$ 471,048
11	Predicted Retail Sales at G&T (kWh)	458,433,224
12	Total Differential FIW Amount per kWh (\$/kWh)	\$ 0.00103
PRIMARY VOLTAGE - Tariff Sheet No. 94.1		
13	Total Primary kWh Sales at G&T (kWh) - Tariff Sheet No. 94.1	61,862,690
14	FIW Costs (Line 12 x Line 13)	\$ 63,719
15	Total Primary Sales at Delivery (kWh)	59,559,025
16	FIW \$/kWh at Primary Voltage (Line 14 ÷ Line 15)	\$ 0.00107
SECONDARY VOLTAGE - Tariff Sheet No. 94.1.1		
17	Total Secondary kWh Sales at G&T (kWh)	396,570,533
18	FIW Costs (Line 12 x Line 17)	\$ 408,468
19	Total Secondary Sales at Delivery (kWh)	378,959,186
20	FIW \$/kWh at Secondary Voltage (Line 14 ÷ Line 15)	\$ 0.00108

Chugach purchased a total of 16,086.9 MWh from the FIW project during fourth quarter 2022. Chugach curtailed 0 MWh during times when resources to offset unexpected wind production were unavailable. Chugach indicates that records show that since inception, the capacity factor of the FIW project has averaged 34.7 percent. Table 5 summarizes the FIW MWh Purchased.³⁵

³⁵ See Exhibit 15 for TA538-8.

Table 5
Fire Island Wind Summary

Month	Capacity Factor	Real Net Electric Energy Delivered to Chugach	Curtailed (Deemed Energy)	Total Energy (Real + Deemed)
Jan-22	49%	6,386.7	-	6,386.7
Feb-22	33%	5,920.7	-	5,920.7
Mar-22	43%	5,607.8	111.3	5,719.1
Apr-22	23%	2,867.9	-	2,867.9
May-22	29%	3,770.6	22.4	3,793.0
Jun-22	14%	1,766.7	-	1,766.7
Jul-22	30%	3,888.2	-	3,888.2
Aug-22	32%	4,164.5	-	4,164.5
Sep-22	41%	5,209.3	-	5,209.3
Oct-22	42%	5,494.3	-	5,494.3
Nov-22	43%	5,388.2	-	5,388.2
Dec-22	40%	5,204.4	-	5,204.4
Total	34.7%	55,669.3	133.7	55,802.9

RRR Rebate Increase

The stipulation filed in U-18-102, U-19-020, and U-19-021, and approved in relevant part by Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) (Order No. 44),³⁶ stated that beginning with Chugach's first COPA filing for the ML&P legacy service area following closing, Chugach shall include a credit to the calculated COPA for ML&P legacy service area customers. Order No. 44 instructed Chugach for the quarterly disbursements for the RRR Account. With TA492-8, Chugach added the methodology for the disbursement of the RRR account.

With TA416-121 and TA538-8, Chugach proposes an RRR Rebate of \$0.01435 per kWh, an increase from the current RRR Rebate of \$0.01291 per kWh. Staff notes that the rebate only applies to North District customers; however, Chugach lists it in both tariffs. Staff confirmed that the proposed RRR rebate was calculated accurately, using Chugach's approved methodology.

BRU Contributed Capital Rebate and Surcharge

With Order No. 44 the Commission required Chugach to rebate \$136 million of the net capital contribution to North District ratepayers, which the Commission determined was more equitable and reasonable than the Restated BRU Agreement filed in the acquisition. That order instructed Chugach to collect a surcharge from its South District customers and disburse a rebate to its North District customer related the BRU contributed capital.

³⁶ Order No. 44 at 135-139.

Order No. 44 also set out a methodology for the surcharge and rebate.³⁷ With TA493-8, Chugach added the methodology for the collection of the surcharge and disbursement of the rebate in compliance with Order No. 44.

With TA416-121 and TA538-8, Chugach proposes a BRU Contributed Capital surcharge of \$0.01484 per kWh, a decrease from the current surcharge of \$0.01488 per kWh, and a BRU Contributed Capital rebate of \$0.02110 per kWh, a decrease from the current rebate of \$0.02264 per kWh. Staff confirmed that the proposed BRU Contributed Capital surcharge and rebate were calculated accurately, using Chugach's approved methodology.

SFPPR Increase

Chugach determines separate SFPPRs for the avoided cost at retail primary voltage and retail secondary voltage.³⁸ The base avoided cost, the avoided cost at generation and transmission (G&T), is calculated by dividing the sum of fuel and purchased power expense (excluding Bradley Lake and FIW) predicted for the next quarter in the determination of fuel and purchased power rates, non-fuel variable operations and maintenance expense, and the balance of the avoided cost balancing account by the kWh sales at G&T as predicted for the next quarter.³⁹

To determine the avoided cost at retail primary voltage, Chugach multiplies the avoided cost at G&T by the quotient of retail primary kWh sales at G&T divided by retail primary kWh sales at delivery.⁴⁰ To determine the avoided cost at retail secondary voltage, Chugach multiplies the avoided cost at G&T by the quotient of retail secondary kWh sales at G&T divided by retail secondary kWh sales at delivery.⁴¹

With TA416-121 and TA538-8 Chugach proposes a SFPPR for retail Primary voltage of \$0.05732/kWh, an increase from the currently approved SFPPR of \$0.05241/kWh⁴² and proposes a SFPPR for retail Secondary voltage of \$0.05775/kWh, an increase from the currently approved SFPPR of \$0.05280/kWh.⁴³ Staff confirmed that the proposed SFPPR was calculated accurately, using Chugach's approved methodology.

³⁷ See Order No. 44 at pages 101-103.

³⁸ See side-by-side Tariff Sheet No. 97, attached as BA-1.

³⁹ *Id.*, at lines 1-5.

⁴⁰ *Id.*, at lines 7.a-c.

⁴¹ *Id.*, at lines 8.a-c.

⁴² *Id.*, at line 7.c.

⁴³ *Id.*, at line 8.c.

Tariff Sheets

Staff reviewed the tariff sheets filed by Chugach with TA410-121⁴⁴ and TA532-8.⁴⁵ Staff notes that Chugach added new tariff sheets for the historical COPA surcharges.⁴⁶ In addition, Chugach removed the historical actual fuel and purchased power cost calculations from the Certificate No. 8 tariff. Chugach has reserved these tariff sheets for future use⁴⁷ and added a new exhibit which includes the previous quarter's actual costs.⁴⁸ Staff verified the proposed surcharges and rates were calculated accurately using Chugach's approved methodologies, the proper support was filed, and the tariff sheets are correct.


Conclusion

With TA416-121 and TA538-8, Chugach requests approval of its revised COPA surcharges and SFPPR rates for the period beginning April 1, 2023. Based on the discussion above, Staff recommends the Commission:

1. Approve Tariff Sheet Nos. 66 through 76, and Tariff Sheet No. 103, filed March 16, 2023, by Chugach with TA416-121. The effective date of the tariff sheets should be April 1, 2023.
2. Approve Tariff Sheet Nos. 93, 94, 94.04, 94.05, 94.1, 94.1.1, 94.1.2, 95, 95.04, 95.05, 95.5, 96, 97, 97.1.5, 97.5.3, and 97.6.2, filed March 16, 2023, by Chugach with TA538-8. The effective date of the tariff sheets should be April 1, 2023.

Signature: Keith Kurber II
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⁴⁴ Tariff Sheet Nos. 66 through 76, and Tariff Sheet No. 103.

⁴⁵ Tariff Sheet Nos. 93, 94, 94.04, 94.05, 94.1, 94.1.1, 94.1.2, 95, 95.04, 95.05, 95.5, 96, 97, 97.1.5, 97.5.3, and 97.6.2.

⁴⁶ See Certificate No. 121 Tariff Sheet Nos. 74 through 76 and Certificate No. 8 Tariff Sheet Nos. 97.1.5, 97.5.3, and 97.6.2.

⁴⁷ See side-by-side Tariff Sheet Nos. 95, 95.04, 95.05, and 95.5.

⁴⁸ See Exhibits 11 and 12.

RCA NO.: <u>121</u>	<u>11th Revision</u>	Sheet No. <u>66</u>
		
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	<u>10th Revision</u>	Sheet No. <u>66</u>
Chugach Electric Association, Inc.		

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COST OF POWER ADJUSTMENT FACTORS AT G&T POST ACQUISITION

e.1. Fuel Adjustment Factor: Predicted Costs for the quarter beginning January 1, 2023

	Total	Retail	Seward
Natural Gas Fuel Expense by Contract			
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
BRU	\$8,772,411	\$8,519,080	\$253,331
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (11/2021-3/2023)	\$0	\$0	\$0
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	\$9,890,081	\$9,604,474	\$285,607
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	\$0	\$0	\$0
Other Fuel Expenses			
Emergency Generator and Other Misc. Fuel	\$0	\$0	\$0
CINGSA - FSS, ISS and Fees	\$1,596,745	\$1,550,634	\$46,111
CINGSA - Gas Withdrawn	\$0	\$0	\$0
Gas Transportation and Compression	\$1,719,391	\$1,669,738	\$49,653
	\$21,978,628	\$21,343,926	\$634,702
Less Credits			
Economy Sales: Fuel and Margins	(\$260,981)	(\$253,444)	(\$7,537)
Wheeling Revenue	(\$722,802)	(\$701,929)	(\$20,873)
AWWU Water Sales	(\$114,279)	(\$110,979)	(\$3,300)
Pooling Agreement - MEA	(\$180,000)	(\$174,802)	(\$5,198)
Gas Exchange Revenue	(\$118,050)	(\$114,641)	(\$3,409)
Subtotal	(\$1,396,112)	(\$1,355,795)	(\$40,317)
Net Fuel Expense	\$20,582,516	\$19,988,131	\$594,385
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$36.45	\$36.43	\$37.32
Projected Balances as of December 31, 2022	\$435,624	\$229,690	\$205,934
Fuel Expense to be Recovered at G&T	\$21,018,140	\$20,217,821	\$800,319
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9
Fuel Adjustment Factor per kWh at G&T	\$0.03824	\$0.03785	\$0.05161

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Tariff Advice No. 410-121 Issued by: Effective: January 1, 2023
 Chugach Electric Association, Inc
 P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: <u>121</u>	<u>12th Revision</u>	Sheet No. <u>66</u>
		
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	<u>11th Revision</u>	Sheet No. <u>66</u>
Chugach Electric Association, Inc.		



COST OF POWER ADJUSTMENT FACTORS AT G&T POST ACQUISITION

e.1. Fuel Adjustment Factor: Predicted Costs for the quarter beginning April 1, 2023

	Total	Retail	Seward
Natural Gas Fuel Expense by Contract			
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
BRU	\$8,500,266	\$8,226,448	\$273,818
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (11/2021-3/2023)	\$0	\$0	\$0
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	\$9,059,882	\$8,768,037	\$291,845
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	\$0	\$0	\$0
Other Fuel Expenses			
Emergency Generator and Other Misc. Fuel	\$0	\$0	\$0
CINGSA - FSS, ISS and Fees	\$2,080,899	\$2,013,868	\$67,032
CINGSA - Gas Withdrawn	\$0	\$0	\$0
Gas Transportation and Compression	\$1,654,692	\$1,601,390	\$53,302
	\$21,295,740	\$20,609,743	\$685,997
Less Credits			
Economy Sales: Fuel and Margins	(\$157,982)	(\$152,893)	(\$5,089)
Wheeling Revenue	(\$425,642)	(\$411,931)	(\$13,711)
AWWU Water Sales	(\$138,239)	(\$133,786)	(\$4,453)
Pooling Agreement - MEA	(\$144,000)	(\$139,361)	(\$4,639)
Gas Exchange Revenue	(\$118,050)	(\$114,247)	(\$3,803)
Subtotal	(\$983,913)	(\$952,218)	(\$31,695)
Net Fuel Expense	\$20,311,827	\$19,657,525	\$654,302
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$41.78	\$41.74	\$42.77
Projected Balances as of March 31, 2023	(\$940,185)	(\$852,173)	(\$88,012)
Fuel Expense to be Recovered at G&T	\$19,371,642	\$18,805,351	\$566,290
Predicted Sales at G&T (MWh)	473,327	458,433	14,894
Fuel Adjustment Factor per kWh at G&T	\$0.04093	\$0.04102	\$0.03802

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**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.2. Purchased Power Adj. Factor: Predicted costs for the quarter beginning January 1, 2023

Description	Total	Retail	Seward
Purchased Power Expense			
Bradley Lake Purchases	\$3,380,469	\$3,282,847	\$97,622
Base FIW Renewable Resource Cost	\$1,266,976	\$1,266,976	\$0
Non-Utility Generation	\$0	\$0	\$0
Pooling Agreement - MEA	\$24,605	\$23,894	\$711
Other Purchases	\$101,358	\$98,431	\$2,927
Subtotal	\$4,773,408	\$4,672,148	\$101,259
Less Purchased Power Credits			
Renewable Energy Certificates	\$0	\$0	\$0
Wheeling and Economy Revenue	(\$215,952)	(\$209,716)	(\$6,236)
Subtotal	(\$215,952)	(\$209,716)	(\$6,236)
Net Purchased Power Expense	\$4,557,455	\$4,462,432	\$95,023
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$8.07	\$8.13	\$5.97
Projected Balances as of December 31, 2022	(\$31,966)	(\$33,562)	\$1,596
Purchased Power Expense to be Recovered	\$4,525,489	\$4,428,870	\$96,619
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9
Purchased Power Adjustment Factor per kWh at G&T	\$0.00823	\$0.00829	\$0.00623

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9th Revision Sheet No. 67



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.2. Purchased Power Adj. Factor: Predicted costs for the quarter beginning April 1, 2023

Description	Total	Retail	Seward
Purchased Power Expense			
Bradley Lake Purchases	\$3,653,775	\$3,536,076	\$117,699
Base FIW Renewable Resource Cost	\$1,092,801	\$1,092,801	\$0
Non-Utility Generation	\$0	\$0	\$0
Pooling Agreement - MEA	\$264,822	\$256,291	\$8,531
Other Purchases	\$101,358	\$98,093	\$3,265
Subtotal	\$5,112,756	\$4,983,262	\$129,494
Less Purchased Power Credits			
Renewable Energy Certificates	\$0	\$0	\$0
Wheeling and Economy Revenue	(\$128,113)	(\$123,986)	(\$4,127)
Subtotal	(\$128,113)	(\$123,986)	(\$4,127)
Net Purchased Power Expense	\$4,984,643	\$4,859,276	\$125,367
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$10.25	\$10.32	\$8.19
Projected Balances as of March 31, 2023	(\$558,171)	(\$558,165)	(\$6)
Purchased Power Expense to be Recovered	\$4,426,472	\$4,301,111	\$125,361
Predicted Sales at G&T (MWh)	473,327	458,433	14,894
Purchased Power Adjustment Factor per kWh at G&T	\$0.00935	\$0.00938	\$0.00842

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**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.3. Incremental Fire Island Wind Adjustment Factor:

Predicted costs for the quarter beginning January 1, 2023

Description	Total	Retail	Seward
Predicted FIW Purchases (MWh)	13,061.6	13,061.6	----
Purchased Power Rate	\$97.00	\$97.00	----
Total FIW Purchased Power Cost	\$1,266,976	\$1,266,976	----
Chugach Avoided Energy Cost at G&T (MWh)	\$49.94	\$49.94	----
Estimated Cost Avoided Due to FIW Purchases	\$652,237	\$652,237	----
Fire Island Wind Cost Differential	\$614,739	\$614,739	----
Chugach Retail Generation & Purchases (MWh)	548,692.6	548,692.6	----
Cost per MWh at Generation	\$1.12	\$1.12	----
Predicted Sales at G&T (MWh)	534,153.0	534,153.0	----
FIW Adjustment Factor per kWh at G&T	\$0.00115	\$0.00115	----

R, R

e.4. Summary of fuel and purchased power cost adjustment factors at G&T
for rates effective January 1, 2023

Fuel & Purch. Pwr Costs to be Recovered	\$25,754,710	\$25,065,302	\$689,408
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$45.61	\$45.68	\$43.28
Projected Balances as of December 31, 2022	\$403,658	\$196,128	\$207,531
Total Costs Recovered at G&T	\$26,158,368	\$25,261,430	\$896,938
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9
Fuel and Purchased Power Adjustment Factor per kWh at G&T	\$0.04759	\$0.04729	\$0.05784

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Chugach Electric Association, Inc.
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9th Revision Sheet No. 68



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.3. Incremental Fire Island Wind Adjustment Factor:

Predicted costs for the quarter beginning April 1, 2023

Description	Total	Retail	Seward
Predicted FIW Purchases (MWh)	11,266	11,266	----
Purchased Power Rate	\$97.00	\$97.00	----
Total FIW Purchased Power Cost	\$1,092,801	\$1,092,801	----
Chugach Avoided Energy Cost at G&T (MWh)	\$55.19	\$55.19	----
Estimated Cost Avoided Due to FIW Purchases	\$621,753	\$621,753	----
Fire Island Wind Cost Differential	\$471,048	\$471,048	----
Chugach Retail Generation & Purchases (MWh)	470,912	470,912	----
Cost per MWh at Generation	\$1.00	\$1.00	----
Predicted Sales at G&T (MWh)	458,433	458,433	----
FIW Adjustment Factor per kWh at G&T	\$0.00103	\$0.00103	----

R, R

e.4. Summary of fuel and purchased power cost adjustment factors at G&T
for rates effective April 1, 2023

Fuel & Purch. Pwr Costs to be Recovered	\$25,767,519	\$24,987,849	\$779,670
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$53.00	\$53.06	\$50.96
Projected Balances as of March 31, 2023	(\$1,498,356)	(\$1,410,338)	(\$88,018)
Total Costs Recovered at G&T	\$24,269,162	\$23,577,511	\$691,651
Predicted Sales at G&T (MWh)	473,327	458,433	14,894
Fuel and Purchased Power Adjustment Factor per kWh at G&T	\$0.05127	\$0.05143	\$0.04644

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**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: PRIMARY SERVICE**

e.5. Chugach retail cost of power adjustment factors for rates effective January 1, 2023

1. Total Chugach Retail Fuel and Purchased Power Cost Recovery	\$25,261,430	
2. Retail Fuel Adjustment Factor per kWh at G&T	\$0.03785	
3. Retail Purchased Power Adjustment Factor per kWh at G&T	\$0.00829	
4. Fire Island Wind Adjustment Factor per kWh at G&T	\$0.00115	

5. Chugach Retail Service at Primary Voltage

A. Fuel Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) Fuel Cost Recovery - Primary Voltage	\$2,660,784	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) Fuel Adjustment Factor per kWh at Primary (Percent Primary Distribution Losses at G&T: 4.72%)	<u>\$0.03973</u>	R

B. Purchased Power Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) Purchased Power Cost Recovery - Primary Voltage	\$582,771	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) Purchased Power Adj. Factor per kWh at Primary	<u>\$0.00870</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) FIW Cost Differential - Primary Voltage	\$80,843	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) FIW Renewable Energy Adj. Factor per kWh at Primary	<u>\$0.00121</u>	R

D. Total Retail Service at Primary Voltage Delivery	\$0.04964	I
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Tariff Advice No. 410-121 Issued by: Effective: January 1, 2023
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Chugach Electric Association, Inc.



**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: PRIMARY SERVICE**

e.5. Chugach retail cost of power adjustment factors for rates effective April 1, 2023

1. Total Chugach Retail Fuel and Purchased Power Cost Recovery	\$23,577,511	
2. Retail Fuel Adjustment Factor per kWh at G&T	\$0.04102	
3. Retail Purchased Power Adjustment Factor per kWh at G&T	\$0.00938	
4. Fire Island Wind Adjustment Factor per kWh at G&T	\$0.00103	

5. Chugach Retail Service at Primary Voltage

A. Fuel Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) Fuel Cost Recovery - Primary Voltage	\$2,537,608	
c) Primary kWh Sales at Delivery	59,559,025	
d) Fuel Adjustment Factor per kWh at Primary (Percent Primary Distribution Losses at G&T: 3.72%)	<u>\$0.04261</u>	I

B. Purchased Power Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) Purchased Power Cost Recovery - Primary Voltage	\$580,272	
c) Primary kWh Sales at Delivery	59,559,025	
d) Purchased Power Adj. Factor per kWh at Primary	<u>\$0.00974</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) FIW Cost Differential - Primary Voltage	\$63,719	
c) Primary kWh Sales at Delivery	59,559,025	
d) FIW Renewable Energy Adj. Factor per kWh at Primary	<u>\$0.00107</u>	R

D. Total Retail Service at Primary Voltage Delivery	\$0.05342	I
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Tariff Advice No. 416-121 Issued by: Effective: April 1, 2023
Chugach Electric Association, Inc.
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RCA NO.: 121 9th Revision Sheet No. 70



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**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: SECONDARY SERVICE**

e.6. Chugach retail cost of power adjustment factors for rates effective January 1, 2023

6. Chugach Retail Service at Secondary Voltage

A. Fuel Adjustment Factor			
a) Secondary kWh Sales at G&T	463,854,869.1		
b) Fuel Cost Recovery - Secondary Voltage	\$17,556,907		
c) Secondary kWh Sales at Delivery	438,658,595.6		
d) Fuel Adjustment Factor per kWh at Secondary		<u>\$0.04002</u>	R
(Percent Secondary Distribution Losses at G&T: 5.43%)			
B. Purchased Power Adjustment Factor			
a) Predicted Secondary kWh Sales at G&T	463,854,869.1		
b) Purchased Power Cost Recovery - Secondary Voltage	\$3,845,357		
c) Predicted Secondary kWh Sales at Delivery	438,658,595.6		
d) Purchased Power Adj. Factor per kWh at Secondary		<u>\$0.00877</u>	I
C. Fire Island Wind Renewable Energy Adjustment Factor			
a) Predicted Secondary kWh Sales at G&T	463,854,869.1		
b) FIW Cost Differential - Secondary Voltage	\$533,433		
c) Predicted Secondary kWh Sales at Delivery	438,658,595.6		
d) FIW Renewable Energy Adj. Factor per kWh at Secondary		<u>\$0.00122</u>	R
D. Total Retail Service at Secondary Voltage Delivery		\$0.05001	I

Tariff Advice No. 410-121 Issued by: Effective: January 1, 2023
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P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 121 10th Revision Sheet No. 70



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9th Revision Sheet No. 70

Chugach Electric Association, Inc.



**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: SECONDARY SERVICE**

e.6. Chugach retail cost of power adjustment factors for rates effective April 1, 2023

6. Chugach Retail Service at Secondary Voltage

A. Fuel Adjustment Factor			
a) Secondary kWh Sales at G&T	396,570,533		
b) Fuel Cost Recovery - Secondary Voltage	\$16,267,323		
c) Secondary kWh Sales at Delivery	378,959,186		
d) Fuel Adjustment Factor per kWh at Secondary		<u>\$0.04293</u>	I
(Percent Secondary Distribution Losses at G&T: 4.44%)			
B. Purchased Power Adjustment Factor			
a) Predicted Secondary kWh Sales at G&T	396,570,533		
b) Purchased Power Cost Recovery - Secondary Voltage	\$3,719,832		
c) Predicted Secondary kWh Sales at Delivery	378,959,186		
d) Purchased Power Adj. Factor per kWh at Secondary		<u>\$0.00982</u>	I
C. Fire Island Wind Renewable Energy Adjustment Factor			
a) Predicted Secondary kWh Sales at G&T	396,570,533		
b) FIW Cost Differential - Secondary Voltage	\$408,468		
c) Predicted Secondary kWh Sales at Delivery	378,959,186		
d) FIW Renewable Energy Adj. Factor per kWh at Secondary		<u>\$0.00108</u>	R
D. Total Retail Service at Secondary Voltage Delivery		\$0.05383	I

Tariff Advice No. 416-121 Issued by: Effective: April 1, 2023
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RCA NO.: 121 9th Revision Sheet No. 71



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Chugach Electric Association, Inc.

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Restricted Rate Reduction Account Rebate

The Restricted Rate Reduction (RRR) account rebate returns \$36 million from the Municipality of Anchorage.¹ The RRR account rebate is returned to North District members in approximately equal dollar amounts over a targeted 36-month period beginning January 1, 2021 and continues until the RRR account balance is depleted. Because the RRR account rebate is determined by projected sales and incorporates a balancing account, the actual return of the RRR account rebate may be shorter or longer than 36-months. In addition to the initial RRR account balance of \$36 million, all interest earned on account balances is included in the rebate amounts.

The RRR rebate is adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings.

A. Applicability

The rebate is applicable to all North District members.

B. RRR Account Rebate Balancing Account

Chugach shall maintain a balancing account for the RRR account rebate to North District members. The North District balancing account begins with a credit balance of \$36,000,000 on October 30, 2020. Beginning January 1, 2021, the account is reduced monthly by the rebate amount. The amount shall include all interest earned on account balances.

C. Rebate

North District member billings will be adjusted on a quarterly basis to reflect changes in the rebate amounts.

Restricted Rate Reduction Account Rebate: (\$0.01291) per kWh R

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 410-121 Issued by: Effective: January 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

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9th Revision Sheet No. 71

Chugach Electric Association, Inc.



Restricted Rate Reduction Account Rebate

The Restricted Rate Reduction (RRR) account rebate returns \$36 million from the Municipality of Anchorage.¹ The RRR account rebate is returned to North District members in approximately equal dollar amounts over a targeted 36-month period beginning January 1, 2021 and continues until the RRR account balance is depleted. Because the RRR account rebate is determined by projected sales and incorporates a balancing account, the actual return of the RRR account rebate may be shorter or longer than 36-months. In addition to the initial RRR account balance of \$36 million, all interest earned on account balances is included in the rebate amounts.

The RRR rebate is adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings.

A. Applicability

The rebate is applicable to all North District members.

B. RRR Account Rebate Balancing Account

Chugach shall maintain a balancing account for the RRR account rebate to North District members. The North District balancing account begins with a credit balance of \$36,000,000 on October 30, 2020. Beginning January 1, 2021, the account is reduced monthly by the rebate amount. The amount shall include all interest earned on account balances.

C. Rebate

North District member billings will be adjusted on a quarterly basis to reflect changes in the rebate amounts.

Restricted Rate Reduction Account Rebate: (\$0.01435) per kWh R

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 416-121 Issued by: Effective: April 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 121 9th Revision Sheet No. 72



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8th Revision Sheet No. 72

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Chugach Electric Association, Inc.

Beluga River Unit Contributed Capital Surcharge and Rebate

The Beluga River Unit Contributed Capital (BRU Contributed Capital) adjustment process governs the collection of funds through a surcharge assessed to South District members and the disbursement of funds to North District members through a rebate over a targeted 120-month period, beginning January 1, 2021.¹ The BRU Contributed Capital adjustment mechanism reconciles historical contributions and future ratepayer benefit between members served in the South District and North District in the amount of \$176,612,912, or \$136,002,239 on a present value basis (10 years, 5% interest rate).

BRU Contributed Capital surcharge and rebate amounts are adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings. Because the surcharge and rebate amounts are determined by projected sales and incorporate balancing accounts, the actual life of the BRU Contributed Capital adjustment process may be shorter or longer than the 120-month period.

A. Applicability

The surcharge is applicable to all South District members and the rebate is applicable to all North District members.

B. BRU Contributed Capital Balancing Accounts

Chugach shall maintain a BRU Contributed Capital surcharge balancing account for South District members and a BRU Contributed Capital rebate balancing account for North District members. The South District balancing account starts with a debit balance of \$176,612,912 reflecting the amounts due from the South District members. The North District balancing account starts with a credit balance of \$176,612,912 reflecting the amount to be rebated. Each account will be reduced monthly by the amount of the surcharge collected and rebate returned to the members.

C. Surcharge and Rebate Amounts

Member billings will be adjusted on a quarterly basis to reflect changes in surcharge and rebate amounts.

South District BRU Contributed Capital Surcharge:	\$0.01488	per kWh	R
North District BRU Contributed Capital Rebate:	(\$0.02264)	per kWh	I

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 410-121	Issued by:	Effective: January 1, 2023
	Chugach Electric Association, Inc.	
	P.O. Box 196300 Anchorage, Alaska 99519-6300	

RCA NO.: 121 10th Revision Sheet No. 72



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Chugach Electric Association, Inc.

Beluga River Unit Contributed Capital Surcharge and Rebate

The Beluga River Unit Contributed Capital (BRU Contributed Capital) adjustment process governs the collection of funds through a surcharge assessed to South District members and the disbursement of funds to North District members through a rebate over a targeted 120-month period, beginning January 1, 2021.¹ The BRU Contributed Capital adjustment mechanism reconciles historical contributions and future ratepayer benefit between members served in the South District and North District in the amount of \$176,612,912, or \$136,002,239 on a present value basis (10 years, 5% interest rate).

BRU Contributed Capital surcharge and rebate amounts are adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings. Because the surcharge and rebate amounts are determined by projected sales and incorporate balancing accounts, the actual life of the BRU Contributed Capital adjustment process may be shorter or longer than the 120-month period.

A. Applicability

The surcharge is applicable to all South District members and the rebate is applicable to all North District members.

B. BRU Contributed Capital Balancing Accounts

Chugach shall maintain a BRU Contributed Capital surcharge balancing account for South District members and a BRU Contributed Capital rebate balancing account for North District members. The South District balancing account starts with a debit balance of \$176,612,912 reflecting the amounts due from the South District members. The North District balancing account starts with a credit balance of \$176,612,912 reflecting the amount to be rebated. Each account will be reduced monthly by the amount of the surcharge collected and rebate returned to the members.

C. Surcharge and Rebate Amounts

Member billings will be adjusted on a quarterly basis to reflect changes in surcharge and rebate amounts.

South District BRU Contributed Capital Surcharge:	\$0.01484	per kWh	R
North District BRU Contributed Capital Rebate:	(\$0.02110)	per kWh	I

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 416-121	Issued by:	Effective: April 1, 2023
	Chugach Electric Association, Inc.	
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**COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION
WITH BRU CONTRIBUTED CAPITAL AND RRR REBATE ADJUSTMENTS**

	South District		North District		
	Primary	Secondary	Primary	Secondary	
Fuel Rate	\$0.03973	\$0.04002	\$0.03973	\$0.04002	R, R, R, R
Purchased Power Rate	\$0.00870	\$0.00877	\$0.00870	\$0.00877	I, I, I, I
FIW Adj Factor	\$0.00121	\$0.00122	\$0.00121	\$0.00122	R, R, R, R
Subtotal	\$0.04964	\$0.05001	\$0.04964	\$0.05001	I, I, I, I
BRU Contributed Capital	\$0.01488	\$0.01488	(\$0.02264)	(\$0.02264)	R, R, I, I
Subtotal	\$0.06452	\$0.06489	\$0.02700	\$0.02737	I, I, I, I
RRR Rebate	---	---	(\$0.01291)	(\$0.01291)	R, R
Total per kWh Rate	\$0.06452	\$0.06489	\$0.01409	\$0.01446	I, I, I, I

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Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 121 10th Revision Sheet No. 73



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9th Revision Sheet No. 73

Chugach Electric Association, Inc.



**COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION
WITH BRU CONTRIBUTED CAPITAL AND RRR REBATE ADJUSTMENTS**

	South District		North District		
	Primary	Secondary	Primary	Secondary	
Fuel Rate	\$0.04261	\$0.04293	\$0.04261	\$0.04293	I, I, I, I
Purchased Power Rate	\$0.00974	\$0.00982	\$0.00974	\$0.00982	I, I, I, I
FIW Adj Factor	\$0.00107	\$0.00108	\$0.00107	\$0.00108	R, R, R, R
Subtotal	\$0.05342	\$0.05383	\$0.05342	\$0.05383	I, I, I, I
BRU Contributed Capital	\$0.01484	\$0.01484	(\$0.02110)	(\$0.02110)	R, R, I, I
Subtotal	\$0.06826	\$0.06867	\$0.03232	\$0.03273	I, I, I, I
RRR Rebate	---	---	(\$0.01435)	(\$0.01435)	R, R
Total per kWh Rate	\$0.06826	\$0.06867	\$0.01797	\$0.01838	I, I, I, I

Tariff Advice No. 416-121 Issued by: Effective: April 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

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Chugach Electric Association, Inc.



FUEL AND PURCHASED POWER COST ADJUSTMENT
(Continued)

DATE	COPA
October 1, 1999 - December 31, 1999	(0.431)¢/kWh
January 1, 2000 - March 31, 2000	(0.518)¢/kWh
April 1, 2000 - June 30, 2000	(0.509)¢/kWh
July 1, 2000 - September 30, 2000	(0.835)¢/kWh
October 1, 2000 - December 31, 2000	(0.692)¢/kWh
January 1, 2001 - March 31, 2001	(0.616)¢/kWh
April 1, 2001 - June 30, 2001	(0.743)¢/kWh
July 1, 2001 - September 30, 2001	(0.816)¢/kWh
October 1, 2001 - December 31, 2001	(0.266)¢/kWh
January 1, 2002 - March 31, 2002	(0.700)¢/kWh
April 1, 2002 - June 30, 2002	(0.269)¢/kWh
July 1, 2002 - September 30, 2002	(0.609)¢/kWh
October 1, 2002 - December 31, 2002	(0.621)¢/kWh
January 1, 2003 - March 31, 2003	(0.469)¢/kWh
April 1, 2003 - June 30, 2003	(0.897)¢/kWh
July 1, 2003 - September 30, 2003	(0.226)¢/kWh
October 1, 2003 - December 31, 2003	0.287¢/kWh
January 1, 2004 - March 31, 2004	0.676¢/kWh
April 1, 2004 - June 30, 2004	0.683¢/kWh
July 1, 2004 - September 30, 2004	0.572¢/kWh
October 1, 2004 - December 31, 2004	0.420¢/kWh
January 1, 2005 - March 31, 2005	0.178¢/kWh
April 1, 2005 - June 30, 2005	0.668¢/kWh
July 1, 2005 - September 30, 2005	0.870¢/kWh
October 1, 2005 - December 31, 2005	(0.030)¢/kWh
January 1, 2006 - March 31, 2006	(0.311)¢/kWh
April 1, 2006 - June 30, 2006	(0.372)¢/kWh
July 1, 2006 - September 30, 2006	(1.611)¢/kWh
October 1, 2006 - December 31, 2006	(1.707)¢/kWh
January 1, 2007 - March 31, 2007	(1.457)¢/kWh
April 1, 2007 - June 30, 2007	(1.498)¢/kWh
July 1 - September 30, 2007	(1.026)¢/kWh
October 1 - December 31, 2007	(1.126)¢/kWh
January 1 - March 31, 2008	(0.655)¢/kWh

COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT TRANSMISSION DELIVERY, RETAIL)

D, N

For Rates Effective	Chugach Retail (Rate per kWh)			
	Total	Fuel	Purchased Power	FIW Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04696	\$0.03936	\$0.00587	\$0.00173
April 1, 2021	\$0.04786	\$0.04214	\$0.00488	\$0.00084
July 1, 2021	\$0.04841	\$0.04284	\$0.00488	\$0.00069
October 1, 2021	\$0.04764	\$0.04192	\$0.00474	\$0.00098
January 1, 2022	\$0.03820	\$0.03229	\$0.00448	\$0.00143
April 1, 2022	\$0.04237	\$0.03639	\$0.00502	\$0.00096
July 1, 2022	\$0.04599	\$0.03800	\$0.00692	\$0.00107
October 1, 2022	\$0.04790	\$0.03968	\$0.00692	\$0.00130
January 1, 2023	\$0.04729	\$0.03785	\$0.00829	\$0.00115
April 1, 2023	\$0.05143	\$0.04102	\$0.00938	\$0.00103

D, N

Tariff Advice No. 416-121

Issued by:

Effective: April 1, 2023

Chugach Electric Association, Inc.

P.O. Box 196300 Anchorage, Alaska 99519-6300

Pursuant to U-18-102(51)/U-19-020(46)/U-19-021(46)

Tariff Advice No.

Issued by:

Effective: **December 23, 2020**

Chugach Electric Association, Inc.

P.O. Box 196300 Anchorage, Alaska 99519-6300

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Chugach Electric Association, Inc.

FUEL AND PURCHASED POWER COST ADJUSTMENT
(Continued)

DATE	COPA
April 1, 2008 - June 30, 2008	\$(0.00543)
July 1, 2008 - September 30, 2008	\$0.00329
October 1, 2008 - December 31, 2008	\$(0.00389)
January 1, 2009 - March 31, 2009	\$0.00270
April 1, 2009 - June 30, 2009	\$0.01766
July 1, 2009 - September 30, 2009	\$0.01959
October 1, 2009 - December 31, 2009	\$0.02009
January 1, 2010 - March 31, 2010	\$0.01127
April 1, 2010 - June 30, 2010	\$0.02930
July 1, 2010 - September 30, 2010	\$0.01815
October 1, 2010 - December 31, 2010	\$0.02079
January 1, 2011 - March 31, 2011	\$0.02760
April 1, 2011 - June 30, 2011	\$0.02758
July 1, 2011 - September 30, 2011	\$0.01683
October 1, 2011 - December 31, 2011	\$0.01927
January 1, 2012 - March 31, 2012	\$0.03599
April 1, 2012 - June 30, 2012	\$0.02782
July 1, 2012 - September 30, 2012	\$0.00497
October 1, 2012 - December 31, 2012	\$0.02235
January 1, 2013 - March 31, 2013	\$0.01917
April 1, 2013 - June 30, 2013	\$0.03506
July 1, 2013 - September 30, 2013	\$0.02974
October 1, 2013 - December 31, 2013	\$0.03531
January 1, 2014 - March 31, 2014	\$0.03326
April 1, 2014 - June 30, 2014	\$0.03842
July 1, 2014 - September 30, 2014	\$0.04723
October 1, 2014 - December 31, 2014	\$0.04175
January 1, 2015 - March 31, 2015	\$0.04190
April 1, 2015 - June 30, 2015	\$0.04362
July 1, 2015 - September 30, 2015	\$0.05468
October 1, 2015 - December 31, 2015	\$0.04510
January 1, 2016 - March 31, 2016	\$0.04445
April 1, 2016 - June 30, 2016	\$0.05517
July 1, 2016 - August 14, 2016	\$0.06129

RCA NO.: 121 1st Revision Sheet No. 75



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Original Sheet No. 75



Chugach Electric Association, Inc.

COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT CHUGACH RETAIL DELIVERY)

For Rates Effective	Primary Voltage (Rate per kWh)			
	Total	Fuel	Purchased Power	FIW Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04729	\$0.03964	\$0.00591	\$0.00174
April 1, 2021	\$0.04944	\$0.04353	\$0.00504	\$0.00087
July 1, 2021	\$0.04952	\$0.04382	\$0.00499	\$0.00071
October 1, 2021	\$0.04963	\$0.04367	\$0.00494	\$0.00102
January 1, 2022	\$0.04317	\$0.03649	\$0.00506	\$0.00162
April 1, 2022	\$0.04325	\$0.03715	\$0.00512	\$0.00098
July 1, 2022	\$0.04600	\$0.03801	\$0.00692	\$0.00107
October 1, 2022	\$0.04823	\$0.03995	\$0.00697	\$0.00131
January 1, 2023	\$0.04964	\$0.03973	\$0.00870	\$0.00131
April 1, 2023	\$0.05342	\$0.04261	\$0.00974	\$0.00107

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Tariff Advice No. 416-121 Issued by: Chugach Electric Association, Inc.
Effective: April 1, 2023
P.O. Box 196300 Anchorage, Alaska 99519-6300

Pursuant to U-18-102(51)/U-19-020(46)/U-19-021(46)

Tariff Advice No. _____ Issued by: Chugach Electric Association, Inc.
Effective: **December 23, 2020**
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Page 10 of 12

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Chugach Electric Association, Inc.

**FUEL AND PURCHASED POWER COST ADJUSTMENT
(Continued)**

<u>DATE</u>	<u>COPA</u>
August 15, 2016 – September 30, 2016	\$0.06204
October 1, 2016 – December 31, 2016	\$0.04860
January 1, 2017 – March 31, 2017	\$0.05871
April 1, 2017 – June 30, 2017	\$0.07666
July 1, 2017 – September 30, 2017	\$0.03279
October 1, 2017 – December 31, 2017	\$0.02800
January 1, 2018 – March 31, 2018	\$0.02456
April 1, 2018 – June 30, 2018	\$0.01024
July 1, 2018 – September 30, 2018	\$0.02076
October 1, 2018 – December 31, 2018	\$0.04213
January 1, 2019 – March 31, 2019	\$0.04773
April 1, 2019 – June 30, 2019	\$0.05002
July 1, 2019 – September 30, 2019	\$0.03655
October 1, 2019 – December 31, 2019	\$0.04079
January 1, 2020 – March 31, 2020	\$0.03429
April 1, 2020 – June 30, 2020	\$0.01706
July 1, 2020 – September 30, 2020	\$0.02204
October 1, 2020 – December 31, 2020	\$0.04017

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Original Sheet No. 76



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT CHUGACH RETAIL SECONDARY VOLTAGE DELIVERY)**

		Secondary Voltage (Rate per kWh)		
For Rates Effective	Total	Fuel	Purchased	FIW
			Power	Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04766	\$0.03994	\$0.00596	\$0.00176
April 1, 2021	\$0.04980	\$0.04385	\$0.00508	\$0.00087
July 1, 2021	\$0.04989	\$0.04415	\$0.00503	\$0.00071
October 1, 2021	\$0.05000	\$0.04400	\$0.00497	\$0.00103
January 1, 2022	\$0.04349	\$0.03676	\$0.00510	\$0.00163
April 1, 2022	\$0.04358	\$0.03743	\$0.00516	\$0.00099
July 1, 2022	\$0.04634	\$0.03829	\$0.00697	\$0.00108
October 1, 2022	\$0.04859	\$0.04025	\$0.00702	\$0.00132
January 1, 2023	\$0.05001	\$0.04002	\$0.00877	\$0.00122
April 1, 2023	\$0.05383	\$0.04293	\$0.00982	\$0.00108

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D, N

Pursuant to U-18-102(51)/U-19-020(46)/U-19-021(46)

Tariff Advice No. _____ Issued by: _____ Effective: **December 23, 2020**
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

Tariff Advice No. 416-121 Issued by: _____ Effective: April 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

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Page 11 of 12

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**POST ACQUISITION PURCHASE AND SALES RATES FOR QUALIFIED COGENERATION,
SMALL POWER PRODUCTION, AND STANDBY/BUYBACK FACILITIES**

Available in all territory served by Chugach, or as required pursuant to contractual arrangements under wholesale power sales agreement. Applicable to qualified cogeneration, small power production and standby/buyback facilities of 200 kW or less. The type of service shall be single or three phase 60 hertz at Chugach's standard voltages.

Chugach reserves the right to limit the number of retail customers receiving service under the terms of this schedule to one per substation circuit. Chugach further reserves the right to reduce the buyback rates for costs associated with the integration of the energy produced by the qualifying facility into the Chugach system. Integration costs are project specific and determined through the completion of an integration study completed by Chugach.

Monthly Rates

Power sales supplied by Chugach to the customer to meet its electric requirements will be priced at the applicable rates. The rate paid by Chugach to the customer for kWh supplied by the customer to Chugach is the average avoided cost calculated as follows:

1. Fuel and purchased power expense, excluding Bradley Lake and Fire Island Wind, predicted for next quarter in the determination of fuel and purchased power rates.	\$20,492,526	
2. Non-fuel O&M expense	\$97,716	
3. Balancing Account as of September 30, 2022	(\$34,626)	
4. Total Avoided Cost Included in Rate	\$20,555,617	
5. kWh Sales at G&T predicted for next quarter:	411,644,128	
6. Avoided Cost per kWh at G&T (L4) / L5	<u>\$0.04994</u>	R
7. Avoided Cost at Retail Primary Voltage		
a) Retail Primary kWh Sales at G&T	70,298,127	
(Percent Primary Distribution Losses at G&T: 4.72%)		
b) Retail Primary kWh Sales at Delivery	66,978,445	
c) Avoided Costs per kWh at Retail Primary (L6 x L7a / L7b)	<u>\$0.05241</u>	I
8. Avoided Cost at Retail Secondary Voltage		
a) Retail Secondary kWh Sales at G&T	463,854,869	
(Percent Secondary Distribution Losses at G&T: 5.43%)		
b) Retail Secondary kWh Sales at Delivery	438,658,596	
c) Avoided Costs per kWh at Retail Secondary (L6 x L8a / L8b)	<u>\$0.05280</u>	I

These rates will change concurrently with cost of power factor adjustments and general rate revisions.

Tariff Advice No. 410-121

Issued by:
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

Effective: January 1, 2023

RCA NO.: 121 10th Revision Sheet No. 103



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9th Revision Sheet No. 103

Chugach Electric Association, Inc.



**POST ACQUISITION PURCHASE AND SALES RATES FOR QUALIFIED COGENERATION,
SMALL POWER PRODUCTION, AND STANDBY/BUYBACK FACILITIES**

Available in all territory served by Chugach, or as required pursuant to contractual arrangements under wholesale power sales agreement. Applicable to qualified cogeneration, small power production and standby/buyback facilities of 200 kW or less. The type of service shall be single or three phase 60 hertz at Chugach's standard voltages.

Chugach reserves the right to limit the number of retail customers receiving service under the terms of this schedule to one per substation circuit. Chugach further reserves the right to reduce the buyback rates for costs associated with the integration of the energy produced by the qualifying facility into the Chugach system. Integration costs are project specific and determined through the completion of an integration study completed by Chugach.

Monthly Rates

Power sales supplied by Chugach to the customer to meet its electric requirements will be priced at the applicable rates. The rate paid by Chugach to the customer for kWh supplied by the customer to Chugach is the average avoided cost calculated as follows:

1. Fuel and purchased power expense, excluding Bradley Lake and Fire Island Wind, predicted for next quarter in the determination of fuel and purchased power rates.	\$20,549,894	
2. Non-fuel O&M expense	\$154,320	
3. Balancing Account as of December 31, 2022	(\$35,647)	
4. Total Avoided Cost Included in Rate	\$20,668,567	
5. kWh Sales at G&T predicted for next quarter:	374,508,755	
6. Avoided Cost per kWh at G&T (L4) / L5	<u>\$0.05519</u>	I
7. Avoided Cost at Retail Primary Voltage		
a) Retail Primary kWh Sales at G&T	61,862,690	
(Percent Primary Distribution Losses at G&T: 3.72%)		
b) Retail Primary kWh Sales at Delivery	59,559,025	
c) Avoided Costs per kWh at Retail Primary (L6 x L7a / L7b)	<u>\$0.05732</u>	I
8. Avoided Cost at Retail Secondary Voltage		
a) Retail Secondary kWh Sales at G&T	396,570,533	
(Percent Secondary Distribution Losses at G&T: 4.44%)		
b) Retail Secondary kWh Sales at Delivery	378,959,186	
c) Avoided Costs per kWh at Retail Secondary (L6 x L8a / L8b)	<u>\$0.05775</u>	I

These rates will change concurrently with cost of power factor adjustments and general rate revisions.

Tariff Advice No. 416-121

Issued by:
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

Effective: April 1, 2023

RCA NO.: 8 13th Revision Sheet No. 93



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12th Revision Sheet No. 93

Chugach Electric Association, Inc.

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REGULATORY COMMISSION OF ALASKA

Restricted Rate Reduction Account Rebate

The Restricted Rate Reduction (RRR) account rebate returns \$36 million from the Municipality Anchorage.¹ The RRR account rebate is returned to North District members in approximately dollar amounts over a targeted 36-month period beginning January 1, 2021 and continues until RRR account balance is depleted. Because the RRR account rebate is determined by projected sales and incorporates a balancing account, the actual return of the RRR account rebate may be shorter or longer than 36-months. In addition to the initial RRR account balance of \$36 million, interest earned on account balances is included in the rebate amounts.

The RRR rebate is adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings.

A. Applicability

The rebate is applicable to all North District members.

B. RRR Account Rebate Balancing Account

Chugach shall maintain a balancing account for the RRR account rebate to North District members. The North District balancing account begins with a credit balance of \$36,000,000 on October 30, 2020. Beginning January 1, 2021, the account is reduced monthly by the rebate amount. The amount shall include all interest earned on account balances.

C. Rebate

North District member billings will be adjusted on a quarterly basis to reflect changes in rebate amounts.

Restricted Rate Reduction Account Rebate: (\$0.01291) per kWh R

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 532-8 Issued by: Effective: January 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

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13th Revision Sheet No. 93

Chugach Electric Association, Inc.



Restricted Rate Reduction Account Rebate

The Restricted Rate Reduction (RRR) account rebate returns \$36 million from the Municipality Anchorage.¹ The RRR account rebate is returned to North District members in approximately dollar amounts over a targeted 36-month period beginning January 1, 2021 and continues until RRR account balance is depleted. Because the RRR account rebate is determined by projected sales and incorporates a balancing account, the actual return of the RRR account rebate may be shorter or longer than 36-months. In addition to the initial RRR account balance of \$36 million, interest earned on account balances is included in the rebate amounts.

The RRR rebate is adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings.

A. Applicability

The rebate is applicable to all North District members.

B. RRR Account Rebate Balancing Account

Chugach shall maintain a balancing account for the RRR account rebate to North District members. The North District balancing account begins with a credit balance of \$36,000,000 on October 30, 2020. Beginning January 1, 2021, the account is reduced monthly by the rebate amount. The amount shall include all interest earned on account balances.

C. Rebate

North District member billings will be adjusted on a quarterly basis to reflect changes in rebate amounts.

Restricted Rate Reduction Account Rebate: (\$0.01435) per kWh R

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 538-8 Issued by: Effective: April 1, 2023
Chugach Electric Association, Inc.
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RCA NO.: 8 173rd Revision Sheet No. 94



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172nd Revision Sheet No. 94

Chugach Electric Association, Inc.

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STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

COST OF POWER ADJUSTMENT FACTORS AT G&T POST ACQUISITION

e.1. Fuel Adjustment Factor: Predicted Costs for the quarter beginning January 1, 2023

	Total	Retail	Seward
Natural Gas Fuel Expense by Contract			
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
BRU	\$8,772,411	\$8,519,080	\$253,331
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (11/2021-3/2023)	\$0	\$0	\$0
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	\$9,890,081	\$9,604,474	\$285,607
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	\$0	\$0	\$0
Other Fuel Expenses			
Emergency Generator and Other Misc. Fuel	\$0	\$0	\$0
CINGSA - FSS, ISS and Fees	\$1,596,745	\$1,550,634	\$46,111
CINGSA - Gas Withdrawn	\$0	\$0	\$0
Gas Transportation and Compression	\$1,719,391	\$1,669,738	\$49,653
	\$21,978,628	\$21,343,926	\$634,702
Less Credits			
Economy Sales: Fuel and Margins	(\$260,981)	(\$253,444)	(\$7,537)
Wheeling Revenue	(\$722,802)	(\$701,929)	(\$20,873)
AWWU Water Sales	(\$114,279)	(\$110,979)	(\$3,300)
Pooling Agreement - MEA	(\$180,000)	(\$174,802)	(\$5,198)
Gas Exchange Revenue	(\$118,050)	(\$114,641)	(\$3,409)
Subtotal	(\$1,396,112)	(\$1,355,795)	(\$40,317)
Net Fuel Expense	\$20,582,516	\$19,988,131	\$594,385
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$36.45	\$36.43	\$37.32
Projected Balances as of December 31, 2022	\$435,624	\$229,690	\$205,934
Fuel Expense to be Recovered at G&T	\$21,018,140	\$20,217,821	\$800,319
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9
Fuel Adjustment Factor per kWh at G&T	\$0.03824	\$0.03785	\$0.05161

R, R, I

Tariff Advice No. 532-8 Issued by: Effective: January 1, 2023
Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

RCA NO.: 8 174th Revision Sheet No. 94



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173rd Revision Sheet No. 94

Chugach Electric Association, Inc.



COST OF POWER ADJUSTMENT FACTORS AT G&T POST ACQUISITION

e.1. Fuel Adjustment Factor: Predicted Costs for the quarter beginning April 1, 2023

	Total	Retail	Seward
Natural Gas Fuel Expense by Contract			
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
BRU	\$8,500,266	\$8,226,448	\$273,818
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (11/2021-3/2023)	\$0	\$0	\$0
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	\$9,059,882	\$8,768,037	\$291,845
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	\$0	\$0	\$0
Other Fuel Expenses			
Emergency Generator and Other Misc. Fuel	\$0	\$0	\$0
CINGSA - FSS, ISS and Fees	\$2,080,899	\$2,013,868	\$67,032
CINGSA - Gas Withdrawn	\$0	\$0	\$0
Gas Transportation and Compression	\$1,654,692	\$1,601,390	\$53,302
	\$21,295,740	\$20,609,743	\$685,997
Less Credits			
Economy Sales: Fuel and Margins	(\$157,982)	(\$152,893)	(\$5,089)
Wheeling Revenue	(\$425,642)	(\$411,931)	(\$13,711)
AWWU Water Sales	(\$138,239)	(\$133,786)	(\$4,453)
Pooling Agreement - MEA	(\$144,000)	(\$139,361)	(\$4,639)
Gas Exchange Revenue	(\$118,050)	(\$114,247)	(\$3,803)
Subtotal	(\$983,913)	(\$952,218)	(\$31,695)
Net Fuel Expense	\$20,311,827	\$19,657,525	\$654,302
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$41.78	\$41.74	\$42.77
Projected Balances as of March 31, 2023	(\$940,185)	(\$852,173)	(\$88,012)
Fuel Expense to be Recovered at G&T	\$19,371,642	\$18,805,351	\$566,290
Predicted Sales at G&T (MWh)	473,327	458,433	14,894
Fuel Adjustment Factor per kWh at G&T	\$0.04093	\$0.04102	\$0.03802

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**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.2. Purchased Power Adj. Factor: Predicted costs for the quarter beginning January 1, 2023

Description	Total	Retail	Seward
Purchased Power Expense			
Bradley Lake Purchases	\$3,380,469	\$3,282,847	\$97,622
Base FIW Renewable Resource Cost	\$1,266,976	\$1,266,976	\$0
Non-Utility Generation	\$0	\$0	\$0
Pooling Agreement - MEA	\$24,605	\$23,894	\$711
Other Purchases	\$101,358	\$98,431	\$2,927
Subtotal	\$4,773,408	\$4,672,148	\$101,259

Less Purchased Power Credits

Renewable Energy Certificates	\$0	\$0	\$0
Wheeling and Economy Revenue	(\$215,952)	(\$209,716)	(\$6,236)
Subtotal	(\$215,952)	(\$209,716)	(\$6,236)

Net Purchased Power Expense	\$4,557,455	\$4,462,432	\$95,023
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$8.07	\$8.13	\$5.97

Projected Balances as of December 31, 2022 (\$31,966) (\$33,562) \$1,596

Purchased Power Expense to be Recovered	\$4,525,489	\$4,428,870	\$96,619
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9

Purchased Power Adjustment Factor per kWh at G&T	\$0.00823	\$0.00829	\$0.00623 I, I, I
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Tariff Advice No. 532-8

Issued by:

Effective: January 1, 2023

Chugach Electric Association, Inc
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RCA NO.: 8 52nd Revision Sheet No. 94.04



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51st Revision Sheet No. 94.04

Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS AT G&T
POST ACQUISITION (CONTINUED)**

e.2. Purchased Power Adj. Factor: Predicted costs for the quarter beginning April 1, 2023

Description	Total	Retail	Seward
Purchased Power Expense			
Bradley Lake Purchases	\$3,653,775	\$3,536,076	\$117,699
Base FIW Renewable Resource Cost	\$1,092,801	\$1,092,801	\$0
Non-Utility Generation	\$0	\$0	\$0
Pooling Agreement - MEA	\$264,822	\$256,291	\$8,531
Other Purchases	\$101,358	\$98,093	\$3,265
Subtotal	\$5,112,756	\$4,983,262	\$129,494

Less Purchased Power Credits

Renewable Energy Certificates	\$0	\$0	\$0
Wheeling and Economy Revenue	(\$128,113)	(\$123,986)	(\$4,127)
Subtotal	(\$128,113)	(\$123,986)	(\$4,127)

Net Purchased Power Expense	\$4,984,643	\$4,859,276	\$125,367
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$10.25	\$10.32	\$8.19

Projected Balances as of March 31, 2023 (\$558,171) (\$558,165) (\$6)

Purchased Power Expense to be Recovered	\$4,426,472	\$4,301,111	\$125,361
Predicted Sales at G&T (MWh)	473,327	458,433	14,894

Purchased Power Adjustment Factor per kWh at G&T	\$0.00935	\$0.00938	\$0.00842 I, I, I
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Issued by:

Effective: April 1, 2023

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**COST OF POWER ADJUSTMENT FACTORS AT G&T
 POST ACQUISITION (CONTINUED)**

e.3. Incremental Fire Island Wind Adjustment Factor:

Predicted costs for the quarter beginning January 1, 2023

Description	Total	Retail	Seward
Predicted FIW Purchases (MWh)	13,061.6	13,061.6	----
Purchased Power Rate	\$97.00	\$97.00	----
Total FIW Purchased Power Cost	\$1,266,976	\$1,266,976	----
Chugach Avoided Energy Cost at G&T (MWh)	\$49.94	\$49.94	----
Estimated Cost Avoided Due to FIW Purchases	\$652,237	\$652,237	----
Fire Island Wind Cost Differential	\$614,739	\$614,739	----
Chugach Retail Generation & Purchases (MWh)	548,692.6	548,692.6	----
Cost per MWh at Generation	\$1.12	\$1.12	----
Predicted Sales at G&T (MWh)	534,153.0	534,153.0	----
FIW Adjustment Factor per kWh at G&T	\$0.00115	\$0.00115	----


R, R

e.4. Summary of fuel and purchased power cost adjustment factors at G&T
 for rates effective January 1, 2023

Fuel & Purch. Pwr Costs to be Recovered	\$25,754,710	\$25,065,302	\$689,408
Generation & Purchases (MWh)	564,620.6	548,692.6	15,928.0
Cost per MWh at Generation	\$45.61	\$45.68	\$43.28
Projected Balances as of December 31, 2022	\$403,658	\$196,128	\$207,531
Total Costs Recovered at G&T	\$26,158,368	\$25,261,430	\$896,938
Predicted Sales at G&T (MWh)	549,658.9	534,153.0	15,505.9
Fuel and Purchased Power Adjustment Factor per kWh at G&T	\$0.04759	\$0.04729	\$0.05784

R, R, I

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RCA NO.: 8 62nd Revision Sheet No. 94.05
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61st Revision Sheet No. 94.05



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS AT G&T
 POST ACQUISITION (CONTINUED)**

e.3. Incremental Fire Island Wind Adjustment Factor:

Predicted costs for the quarter beginning April 1, 2023

Description	Total	Retail	Seward
Predicted FIW Purchases (MWh)	11,266	11,266	----
Purchased Power Rate	\$97.00	\$97.00	----
Total FIW Purchased Power Cost	\$1,092,801	\$1,092,801	----
Chugach Avoided Energy Cost at G&T (MWh)	\$55.19	\$55.19	----
Estimated Cost Avoided Due to FIW Purchases	\$621,753	\$621,753	----
Fire Island Wind Cost Differential	\$471,048	\$471,048	----
Chugach Retail Generation & Purchases (MWh)	470,912	470,912	----
Cost per MWh at Generation	\$1.00	\$1.00	----
Predicted Sales at G&T (MWh)	458,433	458,433	----
FIW Adjustment Factor per kWh at G&T	\$0.00103	\$0.00103	----

R, R

e.4. Summary of fuel and purchased power cost adjustment factors at G&T
 for rates effective April 1, 2023

Fuel & Purch. Pwr Costs to be Recovered	\$25,767,519	\$24,987,849	\$779,670
Generation & Purchases (MWh)	486,211	470,912	15,299
Cost per MWh at Generation	\$53.00	\$53.06	\$50.96
Projected Balances as of March 31, 2023	(\$1,498,356)	(\$1,410,338)	(\$88,018)
Total Costs Recovered at G&T	\$24,269,162	\$23,577,511	\$691,651
Predicted Sales at G&T (MWh)	473,327	458,433	14,894
Fuel and Purchased Power Adjustment Factor per kWh at G&T	\$0.05127	\$0.05143	\$0.04644

I, I, R

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RCA NO.: 8 107th Revision Sheet No. 94.1



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106th Revision Sheet No. 94.1

Chugach Electric Association, Inc.

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**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: PRIMARY SERVICE**

e.5. Chugach retail cost of power adjustment factors for rates effective January 1, 2023

1. Total Chugach Retail Fuel and Purchased Power Cost Recovery	\$25,261,430
2. Retail Fuel Adjustment Factor per kWh at G&T	\$0.03785
3. Retail Purchased Power Adjustment Factor per kWh at G&T	\$0.00829
4. Fire Island Wind Adjustment Factor per kWh at G&T	\$0.00115

5. Chugach Retail Service at Primary Voltage

A. Fuel Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) Fuel Cost Recovery - Primary Voltage	\$2,660,784	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) Fuel Adjustment Factor per kWh at Primary (Percent Primary Distribution Losses at G&T: 4.72%)	<u>\$0.03973</u>	R

B. Purchased Power Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) Purchased Power Cost Recovery - Primary Voltage	\$582,771	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) Purchased Power Adj. Factor per kWh at Primary	<u>\$0.00870</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Primary kWh Sales at G&T	70,298,127.2	
b) FIW Cost Differential - Primary Voltage	\$80,843	
c) Primary kWh Sales at Delivery	66,978,444.7	
d) FIW Renewable Energy Adj. Factor per kWh at Primary	<u>\$0.00121</u>	R

D. Total Retail Service at Primary Voltage Delivery	\$0.04964	I
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Tariff Advice No. 532-8 Issued by: Effective: January 1, 2023

Chugach Electric Association, Inc.
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RCA NO.: 8 108th Revision Sheet No. 94.1



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107th Revision Sheet No. 94.1

Chugach Electric Association, Inc.



**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: PRIMARY SERVICE**

e.5. Chugach retail cost of power adjustment factors for rates effective April 1, 2023

1. Total Chugach Retail Fuel and Purchased Power Cost Recovery	\$23,577,511
2. Retail Fuel Adjustment Factor per kWh at G&T	\$0.04102
3. Retail Purchased Power Adjustment Factor per kWh at G&T	\$0.00938
4. Fire Island Wind Adjustment Factor per kWh at G&T	\$0.00103

5. Chugach Retail Service at Primary Voltage

A. Fuel Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) Fuel Cost Recovery - Primary Voltage	\$2,537,608	
c) Primary kWh Sales at Delivery	59,559,025	
d) Fuel Adjustment Factor per kWh at Primary (Percent Primary Distribution Losses at G&T: 3.72%)	<u>\$0.04261</u>	I

B. Purchased Power Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) Purchased Power Cost Recovery - Primary Voltage	\$580,272	
c) Primary kWh Sales at Delivery	59,559,025	
d) Purchased Power Adj. Factor per kWh at Primary	<u>\$0.00974</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Primary kWh Sales at G&T	61,862,690	
b) FIW Cost Differential - Primary Voltage	\$63,719	
c) Primary kWh Sales at Delivery	59,559,025	
d) FIW Renewable Energy Adj. Factor per kWh at Primary	<u>\$0.00107</u>	R

D. Total Retail Service at Primary Voltage Delivery	\$0.05342	I
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Tariff Advice No. 538-8 Issued by: Effective: April 1, 2023

Chugach Electric Association, Inc.
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**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: SECONDARY SERVICE**

e.6. Chugach retail cost of power adjustment factors for rates effective January 1, 2023

6. Chugach Retail Service at Secondary Voltage

A. Fuel Adjustment Factor

a) Secondary kWh Sales at G&T	463,854,869.1	
b) Fuel Cost Recovery - Secondary Voltage	\$17,556,907	
c) Secondary kWh Sales at Delivery	438,658,595.6	
d) Fuel Adjustment Factor per kWh at Secondary	<u>\$0.04002</u>	R
(Percent Secondary Distribution Losses at G&T: 5.43%)		

B. Purchased Power Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	463,854,869.1	
b) Purchased Power Cost Recovery - Secondary Voltage	\$3,845,357	
c) Predicted Secondary kWh Sales at Delivery	438,658,595.6	
d) Purchased Power Adj. Factor per kWh at Secondary	<u>\$0.00877</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	463,854,869.1	
b) FIW Cost Differential - Secondary Voltage	\$533,433	
c) Predicted Secondary kWh Sales at Delivery	438,658,595.6	
d) FIW Renewable Energy Adj. Factor per kWh at Secondary	<u>\$0.00122</u>	R

D. Total Retail Service at Secondary Voltage Delivery \$0.05001 I

Tariff Advice No. 532-8 Issued by: Chugach Electric Association, Inc.
Effective: January 1, 2023
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RCA NO.: 8 47th Revision Sheet No. 94.1.1



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46th Revision Sheet No. 94.1.1

Chugach Electric Association, Inc.



**COST OF POWER ADJUSTMENT FACTORS
POST ACQUISITION AT RETAIL DELIVERY: SECONDARY SERVICE**

e.6. Chugach retail cost of power adjustment factors for rates effective April 1, 2023

6. Chugach Retail Service at Secondary Voltage

A. Fuel Adjustment Factor

a) Secondary kWh Sales at G&T	396,570,533	
b) Fuel Cost Recovery - Secondary Voltage	\$16,267,323	
c) Secondary kWh Sales at Delivery	378,959,186	
d) Fuel Adjustment Factor per kWh at Secondary	<u>\$0.04293</u>	I
(Percent Secondary Distribution Losses at G&T: 4.44%)		

B. Purchased Power Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	396,570,533	
b) Purchased Power Cost Recovery - Secondary Voltage	\$3,719,832	
c) Predicted Secondary kWh Sales at Delivery	378,959,186	
d) Purchased Power Adj. Factor per kWh at Secondary	<u>\$0.00982</u>	I

C. Fire Island Wind Renewable Energy Adjustment Factor

a) Predicted Secondary kWh Sales at G&T	396,570,533	
b) FIW Cost Differential - Secondary Voltage	\$408,468	
c) Predicted Secondary kWh Sales at Delivery	378,959,186	
d) FIW Renewable Energy Adj. Factor per kWh at Secondary	<u>\$0.00108</u>	R

D. Total Retail Service at Secondary Voltage Delivery \$0.05383 I

Tariff Advice No. 538-8 Issued by: Chugach Electric Association, Inc.
Effective: April 1, 2023
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RCA NO.: 8 8th Revision Sheet No. 94.1.2



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7th Revision Sheet No. 94.1.2

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Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION
WITH BRU CONTRIBUTED CAPITAL AND RRR REBATE ADJUSTMENTS**

	South District		North District		
	Primary	Secondary	Primary	Secondary	
Fuel Rate	\$0.03973	\$0.04002	\$0.03973	\$0.04002	R, R, R, R
Purchased Power Rate	\$0.00870	\$0.00877	\$0.00870	\$0.00877	I, I, I, I
FIW Adj Factor	\$0.00121	\$0.00122	\$0.00121	\$0.00122	R, R, R, R
Subtotal	\$0.04964	\$0.05001	\$0.04964	\$0.05001	I, I, I, I
BRU Contributed Capital	\$0.01488	\$0.01488	(\$0.02264)	(\$0.02264)	R, R, I, I
Subtotal	\$0.06452	\$0.06489	\$0.02700	\$0.02737	I, I, I, I
RRR Rebate	---	---	(\$0.01291)	(\$0.01291)	R, R
Total per kWh Rate	\$0.06452	\$0.06489	\$0.01409	\$0.01446	I, I, I, I

Tariff Advice No. 532-8 Issued by: Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300 Effective: January 1, 2023

RCA NO.: 8 9th Revision Sheet No. 94.1.2



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8th Revision Sheet No. 94.1.2



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION
WITH BRU CONTRIBUTED CAPITAL AND RRR REBATE ADJUSTMENTS**

	South District		North District		
	Primary	Secondary	Primary	Secondary	
Fuel Rate	\$0.04261	\$0.04293	\$0.04261	\$0.04293	I, I, I, I
Purchased Power Rate	\$0.00974	\$0.00982	\$0.00974	\$0.00982	I, I, I, I
FIW Adj Factor	\$0.00107	\$0.00108	\$0.00107	\$0.00108	R, R, R, R
Subtotal	\$0.05342	\$0.05383	\$0.05342	\$0.05383	I, I, I, I
BRU Contributed Capital	\$0.01484	\$0.01484	(\$0.02110)	(\$0.02110)	R, R, I, I
Subtotal	\$0.06826	\$0.06867	\$0.03232	\$0.03273	I, I, I, I
RRR Rebate	---	---	(\$0.01435)	(\$0.01435)	R, R
Total per kWh Rate	\$0.06826	\$0.06867	\$0.01797	\$0.01838	I, I, I, I

Tariff Advice No. 538-8 Issued by: Chugach Electric Association, Inc.
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RCA NO.: 8 171st Revision Sheet No. 95



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Chugach Electric Association, Inc.

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COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION

f. 1. Actual fuel costs for the quarter ending September 30, 2022

Description	Total	Retail	Seward
Fuel Adjustment Factor Balance as of June 30, 2022	\$1,923,703	\$1,688,979	\$234,724
Fuel Expense for Quarter Ending September 30, 2022			
BRU	\$7,037,328	\$6,804,554	\$232,774
AIX Energy, LLC (4/2016-3/2024)	\$0	\$0	\$0
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	\$7,706,140	\$7,450,615	\$255,525
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	\$0	\$0	\$0
Cook Inlet Energy (2014-3/2023)	\$0	\$0	\$0
Furie (11/2021 - 3/2023)	\$631,764	\$610,022	\$21,742
Emergency Generator and Diesel Fuel	\$338	\$327	\$11
CINGSA - FSS, ISS and Fees	\$1,077,922	\$1,042,369	\$35,553
CINGSA - Gas Withdrawn	\$47,298	\$45,758	\$1,539
Gas Transportation and Compression	\$1,462,698	\$1,414,276	\$48,422
Adjustment	\$0	\$0	\$0
Total Fuel and Transportation Expense	\$17,963,487	\$17,367,922	\$595,565
Less Credits			
Economy Sales: Fuel and Margins	(\$1,390,656)	(\$1,344,314)	(\$46,342)
AWWU Water Sales Revenue	(\$96,574)	(\$93,314)	(\$3,260)
Gas Exchange Revenue	(\$124,814)	(\$120,675)	(\$4,139)
Pooling Agreement - MEA	(\$224,679)	(\$217,514)	(\$7,165)
Wheeling Revenue	(\$554,611)	(\$536,435)	(\$18,176)
Subtotal	(\$2,391,334)	(\$2,312,252)	(\$79,082)
Net Fuel Expense	\$15,572,153	\$15,055,670	\$516,483
Generation & Purchases (MWh)	485,478	469,840	15,638
Cost per MWh at Generation	\$32.08	\$32.04	\$33.03
Total Fuel Cost Recovery	\$17,719,408	\$17,006,803	\$712,605
Quarter Balance	(\$2,147,255)	(\$1,951,133)	(\$196,122)

Tariff Advice No. 532-8 Issued by: Effective: January 1, 2023
Chugach Electric Association, Inc.
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RCA NO.: 8 172nd Revision Sheet No. 95



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171st Revision Sheet No. 95

Chugach Electric Association, Inc.



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RCA NO.: 8 49th Revision Sheet No. 95.04



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48th Revision Sheet No. 95.04

Chugach Electric Association, Inc.

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STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

**COST OF POWER ADJUSTMENT FACTORS POST ACQUISITION
(CONTINUED)**

f.2. Actual purchased power costs for the quarter ending September 30, 2022

Description	Total	Retail	Seward
Purchased Power Adjustment Factor			
Balance as of June 30, 2022	(\$894,846)	(\$912,353)	\$17,507
Purchased Power Expense			
Bradley Lake Purchases	\$3,457,808	\$3,343,525	\$114,283
FIW Renewable Resource Expense	\$1,286,420	\$1,286,420	\$0
Non-Utility Generation	\$14,090	\$13,613	\$477
Pooling Agreement - MEA	\$174,367	\$168,370	\$5,998
Other Purchases	\$603,536	\$582,956	\$20,580
Subtotal	\$5,536,221	\$5,394,884	\$141,338
Less Purchased Power Credits			
Renewable Energy Certificates	(\$23,525)	(\$23,525)	\$0
Wheeling and Economy Revenue	(\$208,994)	(\$202,129)	(\$6,865)
Subtotal	(\$232,519)	(\$225,654)	(\$6,865)
Net Purchased Power Expense	\$5,303,702	\$5,169,229	\$134,473
Generation & Purchases (MWh)	485,478	469,840	15,638
Cost per MWh at Generation	\$10.92	\$11.00	\$8.60
Purchased Power Cost Recovery	\$3,737,217	\$3,651,205	\$86,012
Quarter Balance	\$1,566,485	\$1,518,025	\$48,461

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Chugach Electric Association, Inc.
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49th Revision Sheet No. 95.04

Chugach Electric Association, Inc.



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RCA NO.: 8 109th Revision Sheet No. 95.5



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Chugach Electric Association, Inc.

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REGULATORY COMMISSION OF ALASKA

SUMMARY OF ACTUAL AND PROJECTED COST OF POWER POST ACQUISITION

Description	Actual - Quarter Ended September 2022			Projected - Quarter Ended March 2023		
	Volume ¹	Unit Cost	Total Cost	Volume	Unit Cost	Total Cost
Fuel Expense						
BRU	1,933,332	\$3.64	\$7,037,328	1,949,425	\$4.50	\$8,772,411
AIX Energy, LLC (4/2016-3/2024)	----	----	----	----	----	----
Hilcorp Alaska, LLC - Firm (1/2015-3/2028)	961,216	\$7.61	\$7,314,856	1,299,616	\$7.61	\$9,890,081
Hilcorp Alaska, LLC - Non-Firm (2/2021-8/2021)	0	----	\$0	0	----	\$0
Cook Inlet Energy (2014-3/2023)	----	----	----	----	----	----
Furie (11/2021 - 3/2023)	77,517	\$8.15	\$631,764	0	----	\$0
CINGSA - FSS, ISS and Fees	----	----	\$1,077,922	----	----	\$1,596,745
CINGSA - Gas Withdrawn	5,881	\$8.04	\$47,298	0	----	\$0
Emergency Generator and Diesel Fuel	----	----	\$338	----	----	\$0
Gas Transportation and Compression	----	----	\$1,462,698	----	----	\$1,719,391
Adjustment	51,417	\$7.61	\$391,283	0	\$0.00	\$0
Subtotal	3,029,363	\$5.93	\$17,963,487	3,249,041	\$6.76	\$21,978,628
Purchased Power Expense						
Bradley Lake Purchases, MWh	65,693	\$52.64	\$3,457,808	73,356	\$46.08	\$3,380,469
FTW Renewable Resource Exp.	13,262	\$97.00	\$1,286,420	13,062	\$97.00	\$1,266,976
Non-Utility Generation	102	----	\$14,090	----	----	\$0
Other Purchases, MWh	11,229	----	\$777,903	1,750	----	\$125,963
Subtotal	90,286	\$61.32	\$5,536,221	88,167	\$54.14	\$4,773,408
Total Fuel & Purch. Power Expense	----	----	\$23,499,709	----	----	\$26,752,035

¹ Fuel volumes from invoices.

Tariff Advice No. 532-8

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P.O. Box 196300 Anchorage, Alaska 99519-6300

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109th Revision Sheet No. 95.5

Chugach Electric Association, Inc.



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Page 11 of 16

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35th Revision Sheet No. 96

Chugach Electric Association, Inc.

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STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

Beluga River Unit Contributed Capital Surcharge and Rebate

The Beluga River Unit Contributed Capital (BRU Contributed Capital) adjustment process governs the collection of funds through a surcharge assessed to South District members and the disbursement of funds to North District members through a rebate over a targeted 120-month period, beginning January 1, 2021.¹ The BRU Contributed Capital adjustment mechanism reconciles historical contributions and future ratepayer benefit between members served in the South District and North District in the amount of \$176,612,912, or \$136,002,239 on a present value basis (10 years, 5% interest rate).

BRU Contributed Capital surcharge and rebate amounts are adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings. Because the surcharge and rebate amounts are determined by projected sales and incorporate balancing accounts, the actual life of the BRU Contributed Capital adjustment process may be shorter or longer than the 120-month period.

A. Applicability

The surcharge is applicable to all South District members and the rebate is applicable to all North District members.

B. BRU Contributed Capital Balancing Accounts

Chugach shall maintain a BRU Contributed Capital surcharge balancing account for South District members and a BRU Contributed Capital rebate balancing account for North District members. The South District balancing account starts with a debit balance of \$176,612,912 reflecting the amounts due from the South District members. The North District balancing account starts with a credit balance of \$176,612,912 reflecting the amount to be rebated. Each account will be reduced monthly by the amount of the surcharge collected and rebate returned to the members.

C. Surcharge and Rebate Amounts

Member billings will be adjusted on a quarterly basis to reflect changes in surcharge and rebate amounts.

South District BRU Contributed Capital Surcharge:	\$0.01488	per kWh	R
North District BRU Contributed Capital Rebate:	(\$0.02264)	per kWh	I

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

Tariff Advice No. 532-8	Issued by:	Effective: January 1, 2023
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RCA NO.: 8 37th Revision Sheet No. 96



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36th Revision Sheet No. 96

Chugach Electric Association, Inc.



Beluga River Unit Contributed Capital Surcharge and Rebate

The Beluga River Unit Contributed Capital (BRU Contributed Capital) adjustment process governs the collection of funds through a surcharge assessed to South District members and the disbursement of funds to North District members through a rebate over a targeted 120-month period, beginning January 1, 2021.¹ The BRU Contributed Capital adjustment mechanism reconciles historical contributions and future ratepayer benefit between members served in the South District and North District in the amount of \$176,612,912, or \$136,002,239 on a present value basis (10 years, 5% interest rate).

BRU Contributed Capital surcharge and rebate amounts are adjusted quarterly consistent with the timing of Chugach's cost of power adjustment filings. Because the surcharge and rebate amounts are determined by projected sales and incorporate balancing accounts, the actual life of the BRU Contributed Capital adjustment process may be shorter or longer than the 120-month period.

A. Applicability

The surcharge is applicable to all South District members and the rebate is applicable to all North District members.

B. BRU Contributed Capital Balancing Accounts

Chugach shall maintain a BRU Contributed Capital surcharge balancing account for South District members and a BRU Contributed Capital rebate balancing account for North District members. The South District balancing account starts with a debit balance of \$176,612,912 reflecting the amounts due from the South District members. The North District balancing account starts with a credit balance of \$176,612,912 reflecting the amount to be rebated. Each account will be reduced monthly by the amount of the surcharge collected and rebate returned to the members.

C. Surcharge and Rebate Amounts

Member billings will be adjusted on a quarterly basis to reflect changes in surcharge and rebate amounts.

South District BRU Contributed Capital Surcharge:	\$0.01484	per kWh	R
North District BRU Contributed Capital Rebate:	(\$0.02110)	per kWh	I

¹ See Order No. U-18-102(44)/U-19-020(39)/U-19-021(39) issued by the Regulatory Commission of Alaska on May 28, 2020.

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150th Revision Sheet No. 97

Chugach Electric Association, Inc.

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STATE OF ALASKA
REGULATORY COMMISSION OF ALASKA

**POST ACQUISITION PURCHASE AND SALES RATES FOR QUALIFIED COGENERATION,
SMALL POWER PRODUCTION, AND STANDBY/BUYBACK FACILITIES**

Available in all territory served by Chugach, or as required pursuant to contractual arrangements under wholesale power sales agreement. Applicable to qualified cogeneration, small power production and standby/buyback facilities of 200 kW or less. The type of service shall be single or three phase 60 hertz at Chugach's standard voltages.

Chugach reserves the right to limit the number of retail customers receiving service under the terms of this schedule to one per substation circuit. Chugach further reserves the right to reduce the buyback rates for costs associated with the integration of the energy produced by the qualifying facility into the Chugach system. Integration costs are project specific and determined through the completion of an integration study completed by Chugach.

Monthly Rates

Power sales supplied by Chugach to the customer to meet its electric requirements will be priced at the applicable rates. The rate paid by Chugach to the customer for kWh supplied by the customer to Chugach is the average avoided cost calculated as follows:

1. Fuel and purchased power expense, excluding Bradley Lake and Fire Island Wind, predicted for next quarter in the determination of fuel and purchased power rates.	\$20,492,526	
2. Non-fuel O&M expense	\$97,716	
3. Balancing Account as of September 30, 2022	(\$34,626)	
4. Total Avoided Cost Included in Rate	\$20,555,617	
5. kWh Sales at G&T predicted for next quarter:	411,644,128	
6. Avoided Cost per kWh at G&T (L4) / L5	<u>\$0.04994</u>	R
7. Avoided Cost at Retail Primary Voltage		
a) Retail Primary kWh Sales at G&T	70,298,127	
(Percent Primary Distribution Losses at G&T: 4.72%)		
b) Retail Primary kWh Sales at Delivery	66,978,445	
c) Avoided Costs per kWh at Retail Primary (L6 x L7a / L7b)	<u>\$0.05241</u>	I
8. Avoided Cost at Retail Secondary Voltage		
a) Retail Secondary kWh Sales at G&T	463,854,869	
(Percent Secondary Distribution Losses at G&T: 5.43%)		
b) Retail Secondary kWh Sales at Delivery	438,658,596	
c) Avoided Costs per kWh at Retail Secondary (L6 x L8a / L8b)	<u>\$0.05280</u>	I

These rates will change concurrently with cost of power factor adjustments and general rate revisions.

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Chugach Electric Association, Inc.
P.O. Box 196300 Anchorage, Alaska 99519-6300

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Canceling

151st Revision Sheet No. 97

Chugach Electric Association, Inc.



**POST ACQUISITION PURCHASE AND SALES RATES FOR QUALIFIED COGENERATION,
SMALL POWER PRODUCTION, AND STANDBY/BUYBACK FACILITIES**

Available in all territory served by Chugach, or as required pursuant to contractual arrangements under wholesale power sales agreement. Applicable to qualified cogeneration, small power production and standby/buyback facilities of 200 kW or less. The type of service shall be single or three phase 60 hertz at Chugach's standard voltages.

Chugach reserves the right to limit the number of retail customers receiving service under the terms of this schedule to one per substation circuit. Chugach further reserves the right to reduce the buyback rates for costs associated with the integration of the energy produced by the qualifying facility into the Chugach system. Integration costs are project specific and determined through the completion of an integration study completed by Chugach.

Monthly Rates

Power sales supplied by Chugach to the customer to meet its electric requirements will be priced at the applicable rates. The rate paid by Chugach to the customer for kWh supplied by the customer to Chugach is the average avoided cost calculated as follows:

1. Fuel and purchased power expense, excluding Bradley Lake and Fire Island Wind, predicted for next quarter in the determination of fuel and purchased power rates.	\$20,549,894	
2. Non-fuel O&M expense	\$154,320	
3. Balancing Account as of December 31, 2022	(\$35,647)	
4. Total Avoided Cost Included in Rate	\$20,668,567	
5. kWh Sales at G&T predicted for next quarter:	374,508,755	
6. Avoided Cost per kWh at G&T (L4) / L5	<u>\$0.05519</u>	I
7. Avoided Cost at Retail Primary Voltage		
a) Retail Primary kWh Sales at G&T	61,862,690	
(Percent Primary Distribution Losses at G&T: 3.72%)		
b) Retail Primary kWh Sales at Delivery	59,559,025	
c) Avoided Costs per kWh at Retail Primary (L6 x L7a / L7b)	<u>\$0.05732</u>	I
8. Avoided Cost at Retail Secondary Voltage		
a) Retail Secondary kWh Sales at G&T	396,570,533	
(Percent Secondary Distribution Losses at G&T: 4.44%)		
b) Retail Secondary kWh Sales at Delivery	378,959,186	
c) Avoided Costs per kWh at Retail Secondary (L6 x L8a / L8b)	<u>\$0.05775</u>	I

These rates will change concurrently with cost of power factor adjustments and general rate revisions.

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Chugach Electric Association, Inc.
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RCA NO.: 8 Original Sheet No. 97.1.5



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Sheet No. 97.1.5



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT TRANSMISSION DELIVERY, RETAIL)**

N

	Chugach Retail (Rate per kWh)			
For Rates Effective	Total	Fuel	Purchased	FIW
			Power	Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04696	\$0.03936	\$0.00587	\$0.00173
April 1, 2021	\$0.04786	\$0.04214	\$0.00488	\$0.00084
July 1, 2021	\$0.04841	\$0.04284	\$0.00488	\$0.00069
October 1, 2021	\$0.04764	\$0.04192	\$0.00474	\$0.00098
January 1, 2022	\$0.03820	\$0.03229	\$0.00448	\$0.00143
April 1, 2022	\$0.04237	\$0.03639	\$0.00502	\$0.00096
July 1, 2022	\$0.04599	\$0.03800	\$0.00692	\$0.00107
October 1, 2022	\$0.04790	\$0.03968	\$0.00692	\$0.00130
January 1, 2023	\$0.04729	\$0.03785	\$0.00829	\$0.00115
April 1, 2023	\$0.05143	\$0.04102	\$0.00938	\$0.00103

N

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Sheet No. 97.5.3



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT CHUGACH RETAIL DELIVERY)**

For Rates Effective	Primary Voltage (Rate per kWh)			
	Total	Fuel	Purchased Power	FIW Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04729	\$0.03964	\$0.00591	\$0.00174
April 1, 2021	\$0.04944	\$0.04353	\$0.00504	\$0.00087
July 1, 2021	\$0.04952	\$0.04382	\$0.00499	\$0.00071
October 1, 2021	\$0.04963	\$0.04367	\$0.00494	\$0.00102
January 1, 2022	\$0.04317	\$0.03649	\$0.00506	\$0.00162
April 1, 2022	\$0.04325	\$0.03715	\$0.00512	\$0.00098
July 1, 2022	\$0.04600	\$0.03801	\$0.00692	\$0.00107
October 1, 2022	\$0.04823	\$0.03995	\$0.00697	\$0.00131
January 1, 2023	\$0.04964	\$0.03973	\$0.00870	\$0.00131
April 1, 2023	\$0.05342	\$0.04261	\$0.00974	\$0.00107

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Sheet No. 97.6.2



Chugach Electric Association, Inc.

**COST OF POWER ADJUSTMENT FACTOR HISTORY
(SERVICE AT CHUGACH RETAIL SECONDARY VOLTAGE DELIVERY)**

N

For Rates Effective	Total	Secondary Voltage (Rate per kWh)		
		Fuel	Purchased Power	FIW Adjustment Factor
Post Acquisition:				
January 1, 2021	\$0.04766	\$0.03994	\$0.00596	\$0.00176
April 1, 2021	\$0.04980	\$0.04385	\$0.00508	\$0.00087
July 1, 2021	\$0.04989	\$0.04415	\$0.00503	\$0.00071
October 1, 2021	\$0.05000	\$0.04400	\$0.00497	\$0.00103
January 1, 2022	\$0.04349	\$0.03676	\$0.00510	\$0.00163
April 1, 2022	\$0.04358	\$0.03743	\$0.00516	\$0.00099
July 1, 2022	\$0.04634	\$0.03829	\$0.00697	\$0.00108
October 1, 2022	\$0.04859	\$0.04025	\$0.00702	\$0.00132
January 1, 2023	\$0.05001	\$0.04002	\$0.00877	\$0.00122
April 1, 2023	\$0.05383	\$0.04293	\$0.00982	\$0.00108

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